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REPORT ON
PRE-1942 WELLS
ROCKY MOUNTAIN ARSENAL

94-34838

XXXXXXXXXX

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REPORT ON
PRE-1942 WELLS
ROCKY MOUNTAIN ARSENAL

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LIST OF ATTACHMENTS

Attachments

- 1 Location of Abandoned Farm
 Wells and Plume Patterns
 (Geraghty & Miller, 1981)
- 2 Real Estate Plat Map - 1942
- 3 1937 Cultural Map - Pre RMA
 Well Locations

1.0 INTRODUCTION

The area on which the Rocky Mountain Arsenal was established was previously devoted to agricultural and residential use. A large number -- perhaps as many as 300 -- water wells had been constructed for irrigation, stock watering and domestic use. Some of the wells are deep; as many as 40 may have been drilled to depths greater than 100 feet. Two of these wells are as deep as 1000 feet. Upon acquisition of the property early RMA plans indicated the intentions that some of the wells were to be "filled" by unspecified methods. Others were to be "covered," and others were to be left "as is."

Information on the location and condition of some of the wells is available from several sources, and all of these sources have been examined and an attempt made to compile the information into one document.

1.1 HISTORICAL WELL INFORMATION

The earliest information on the number and location of the wells is from a 1943 Army map (Drawing 7164-2105) showing the approximate location, and from the appraisal reports prepared during acquisition of the property. The map shows 218 wells in the present area of the RMA plus Section 10. Of the 496 property appraisal reports, 437 have been obtained and reviewed. These reports note the existence of 230 wells within RMA plus Section 10. Not all of the wells noted in the appraisal reports are shown on the Army map and not all of the wells shown on the Army map are noted in the appraisal reports. Combining this information indicates that there may have been as many as 300 pre-1942 wells on the RMA, of which, as many as 41 range in depth from 100

feet to 1000 feet. Thus wells on the Arsenal have penetrated at least into the Laramie Formation and possibly as deep as the Fox Hills Formation.

The Army map indicates that 33 of the wells were to be "filled," 156 were to be "covered," and 29 were to be left "as is." No details have been found of "filling" procedures; "covering" apparently meant placing wooden planks over the well, or installing a wooden plug.

Data dated 14 August 1946 received from the RMA lists 249 wells on the RMA plus Section 10, of which 39 are noted as "filled" and 35 are "dry." Water levels are also listed for 127 of the wells; most of the wells with no water level data are shown as either "filled, dry, not located, plugged, or covered." Some of the wells with no water level data probably were not located in 1946 and have the remark "Copied from Record of Nov. 26, 1942 - RMA - CWS." About half of the wells listed were hand-dug wells. Many of these may now be filled by wind-blown material.

In 1955, the USGS found and opened 34 wells during a groundwater study of the area. Location sketches, descriptions of the wells, depth of water, and depth of well are available for those wells. It is not known whether they attempted to find more, or whether they were only establishing a network over the area for monitoring purposes.

The Corps of Engineers (COE) sealed six wells in 1962 by blasting the casings at three intervals and pumping cement into the bore. Five others were searched-for and not found, and four wells reported as "deep" wells were found to be shallow and were not sealed.

The method of construction of the pre-Arsenal wells can only be inferred from the reported diameter of the wells. About one-half of the wells are from 30 to 60 inches in diameter and were presumably hand-dug. The others range from three inches up to eighteen inches, and must have been drilled. Some appear to have been originally hand dug, then deepened by drilling. From their age, one would assume that most were drilled by cable tool methods. No details are available on methods of completion; some may be cased throughout, others may have casing only down to competent rock.

In their report "Evaluation of the Hydrogeologic System and Contamination Migration Patterns, RMA" dated 1981 Geraghty and Miller present a map purporting to show the locations of old farm wells, those over 100 feet in depth, and those filled. Many discrepancies occur between the data presented on the map and the Army data. It appears that few, if any, of the wells were observed in the field. The map (Attachment 1) is attached to this report.

1.2 PRESENT STATUS OF WELL INFORMATION

The task of compiling all known information on the location, type, size, and condition of the pre-1942 wells is virtually completed. Of apparently 496 appraisal reports prepared for acquisition of the property, 437 have been examined. A map was prepared showing where wells were noted on the reports of each parcel. Army reports that the remaining appraisal reports are not available (letter to Ed McGrath from Gary Blair, Aug. 22, 1985).

Aerial photography taken in 1937 has been examined by photo interpretation personnel and a map prepared showing the location of homesteads and other buildings that might be indicative of the presence of wells (Attachment 3). Present day features are shown to assist in orientation in the field.

The well locations and corresponding numbers shown on the map were taken from the Army Drawing 7164-2105. The depths, construction method inferred from casing size, and "filling" data are from the RMA 1946 tabulation. Identification of those wells shown as "plugged" is from the COE report of plugging in 1962. A number of possible well locations interpreted from the 1937 photographs are shown. It should be noted that in several cases, "possible" well locations are shown close to and in similar orientations as Drawing 7164-2105 locations. This may indicate inaccurate original locations.

Attachment 2 is a plat map showing those parcels in which wells were reported during the appraisal but which do not appear on the Army Drawing 7164-2105. The plot map was constructed by interpretation of the appraisal reports.

Some of the discrepancies merit attention. For example, there are three old wells in Section 26. Number 1 is reported as 27 feet deep, Number 2 is reported as 700 feet deep and Number 3 (at the edge of Basin F) as 48 feet deep. Both Nos. 2 and 3 are on the same parcel, on which two wells were reported, one shallow and one deep.

The USGS sounded Number 2 in 1955 and reported a dug well with a depth of 30 feet. In 1962 the COE cleaned the well in preparation for sealing and found it to be only 30 feet

deep. They concluded that the 700 foot depth was in error, replaced the well cover, and moved to Number 1 which they assumed to be the deep well. They were unable to find a casing, and since "RMA records show (No. 1) to be razed and filled," inferred that it was in actuality the deep well site. It appears likely that Number 3 at Basin F is the 700-foot-deep well, and that it remains unsealed.

A compilation of all of the available data regarding the existence and condition of wells is included in Appendix E. The discrepancies in existing data can readily be seen. The 1946 RMA "Data of Wells on RMA," the 1955 USGS inventory sheets, and the 1962 COE "Report of Plugging Operations of Deep Wells on the Rocky Mountain Arsenal" are also appended. The appraisal reports have been already submitted to Mr. R. Turkletaub of the Army.

2.0 CONCLUSIONS

As many as 300 water wells predate the RMA. Some of these are shallow and probably present no cross contamination hazard. Some have apparently been properly plugged. Others, however, are sufficiently deep to penetrate into and below the Denver Formation, and their condition is not known. As many old wells as possible should be found and sampled and their physical condition be determined.

The ultimate goals of such an investigation and ensuing efforts would be to determine whether the deep aquifers are contaminated, to prevent future contamination, and to remedy any damage already done. The initial effort probably would be much less comprehensive. Several questions require answers before the total scope of investigation could be designed. Those questions are:

1. Do the wells still exist as open holes with communication to the aquifer(s), both vertically and laterally?
2. Do the wells presently contain contaminants? If so what?
3. What is the probability that the wells, even if presently clean, present a conduit for cross-contamination in the future?

The complete study could be separated into four phases:

- Phase 1. Office Well Location
- Phase 2. Field Well Location and Screening
- Phase 3. Hazard Evaluation
- Phase 4. Remedial Action

The results of each phase are prerequisite to planning and accomplishing the ensuing phase. Phase 1 is already virtually completed to the extent possible with the data available. Phase 2 should probably consist of a screen to determine whether further testing is required, and if so, in what wells or areas.

REFERENCES

1. Geraghty and Miller (1981), "Evaluation of the Hydrogeologic System and Contamination Migration Patterns, Rocky Mountain Arsenal"
2. U.S. Army, (1943), "Location of Farm Wells," Drawing 7164-2105
3. U.S. Army, (no date), "Report on Plugging Operations of Deep Wells on the Rocky Mountain Arsenal," COE, Omaha
4. U.S. Army, (1946), "Data of Wells on RMA," six pages of data, RMA files
5. U.S. Geological Survey (1935), Well inventory sheets, unpublished data

APPENDICES

- | | | |
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Pre-existing on the RMA |
| | B. | Data of Wells on RMA 1946 |
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Inventory Sheets |
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APPENDIX A

APPRAISAL REPORTS OF PROPERTIES
PRE-EXISTING ON THE RMA

Previously transmitted to USATHAMA

WELLS

APPENDIX B
DATA OF WELLS ON RMA
1946

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APPENDIX C
U.S. GEOLOGICAL SURVEY
WELL INVENTORY SHEETS

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APPENDIX D
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ROCKY MOUNTAIN ARSENAL

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APPENDIX E
PRE-1942 WELLS
SUMMARY OF AVAILABLE DATA

APPENDIX A

APPRAISAL REPORTS OF PROPERTIES
PRE-EXISTING ON THE RMA

Previously transmitted to USATHAMA

APPENDIX B
DATA OF WELLS ON RMA
1946

14 August, 1946

Sheet #1 of 5

DATA OF WELLS ON R M A

Dwg 7164-2105
Apr. 5-1943

Range 66 West - Township 2 South

SEC.	TRACT	WELL #	DEPTH TO WATER	DEPTH OF -WATER	SIZE CAS ING	DEPTH WELL	REMARKS
19	D-11	1			6"	14'	Dry
20	D-5	1			10"	24'	Dry
20	D-5	2				600'	Filled - Record Nov. 1942
20	D-6	3	69'		4"		
20	D-7	4	38'	14'	4"	200'	- Record Nov. 1942
30	D-20	1	12'	6"	6"	45'	- Record Nov. 1942
30	D-20	2			36"		Galv. casing; water at top of well, W/float
30	D-21	3					Filled
30	D-14	4					Capped; no data
30	D-13	5					Filled
30	D-20	6					Plugged at 8'; dry
31	D-30	1	22'	3'	36"	25'	Concrete
31	D-26	2	23.5'	2.5'	6"	28'	
31	D-26	3					Dry
31	D-25	4	21'	9'	12"	40'	- Record Nov. 1942
31	D-28	5	21'	24'	48"	45'	Steel Casing
31	D-28	6	19'	30'	30"	49'	Conc. Culvert; test on this well
31	D-28	7				50'	Filled; - Record Nov. 1942
31	D-28	8			6"	190'	Plug at 3'; - Record Nov. 1942
31	D-25	9					Filled
32	D-31	1	16'	22'	36"	100'	Concrete; - Record Nov. 1942
32	D-31	2				40'	36' dug well; dry. - Record Nov. 1942
32	D-32	3	29'	21'	20"	50'	Iron Casing
32	D-6	4					Filled
32	D-32	5					Filled
32	D-5	6	24'	6'	6"	30'	

Range 66 West - Township 3 South

5	E-8	1	21'	5'		28'	
5	E-9	2	118'		Inside 4"	700'	From Cont. - Record Nov. 1942
5	E-9	3					No data - nailed
5	E-1	4					Long Branch School House
6	E-3	1	5'	9'		14'	
6	E-3	2			6"		Dry - partly filled
6	E-3	3	6'	11'	6"	17'	
6	E-3	4					Filled
6	E-2-3	5				27'	Unable to locate - Record Nov. 1942
6	E-7	6			6"	50'	- Record Nov. 1942
8	E-32	1	7'	15'		22'	

Range 57 West - Township 2 South

22	A-49	1	55'		6"	500'	- Record Nov. 1942
22	A-49	2	32'	2'	36"	524'	Concrete

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Sheet #2 of 5

Range 67 West - Township 2 South (Cont'd)

SEC.	TRACT	WELL #	DEPTH TO WATER	DEPTH OF WATER	SIZE CASING	DEPTH WELL	REMARKS
22	A-1	3	60'		6"	500'	* Record Nov. 1942
23	A-54	1	51'	12'	6"x5"x5'	63'	Pit - cased below
23	A-54	2	51'	8'	36"	59'	Concrete
23	A-3	3	47'		48"		Concrete
23	A-2	4				460'	Filled - *Record Nov. 1942
23	A-3	5				520'	Windmill w/pump, covered-No data *Record Nov. 1942
23	A-4	6	54'		6"	480'	*Record Nov. 1942
23	A-4	7	27'	7'	48"	34'	Concrete
23	A-54	8	51'	8'	36"	59'	Concrete
24	D-10	1	74'				Hand pump in well; no data
24	D-9	2	24'	3'	8"	77'	
24	D-1	3	37'	7'	6"	44'	
24	D-1	4	24'	10'	24"	34'	Concrete
24	D-1	5	14'	6'	60"	20'	Concrete
24	D-1	6				450'	15 H.P. Allis Chalmers, W/8" pipe, REA being used for irrigation, no data.
25	D-10	1	69'	10'	6"	79'	
	D-10	2			6"	19'	Dry
	D-10	3					Filled
26	A-37	1			8"	27'	Dry
26	A-59	2			36"	700'	Dry; walled; * Record Nov. 1942
26	A-59	3			36"	48'	Dry; walled
27	A-53	1			8'	620'	Conc. Frame; well covered, No data; *Record Nov. 1942
27	A-55-B	2			8'		Conc. Frame, well covered, no data
27	A-55	3				46'	Filled; * Record Nov. 1942
27	A-55-C	4				23'	Dry
27	A-86	5	52'	6'	6"	58'	
27	A-57-B	6			36"		Dry; drilled below pit
28	A-56-A	1	46'	2'	4"	48'	
28	A-84	2	37'	10'	48"	47'	Conc.
33	A-74	1	41'	15'	30"	56'	Conc.
33	A-74	2					Filled
33	A-83	3					Filled
33	A-83	4	110'	5'	6"	115'	House #812 ✓
33	A-88	5			30"	60'	Dry - brick walled
33	A-88	6			3"	80'	21' to plug * Record Nov. 1942
33	A-79	7					Unable to locate
33	A-79-D	8	42'	9'	7"	50'	
33	A-78	9	70'	26'	48"	96'	Concrete
33	A-75	10	44'	13'	36"	57'	Concrete
33	A-75	11					Plug
	A-89				30"		Dry Brick Walled
35	A-91	1	87'	37'	4"	124'	

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Sheet #3 of 5

Range 67 West - Township 2 South (Cont'd)

SEC.	TRACT	WELL #	DEPTH TO WATER	DEPTH OF WATER	SIZE CASING	DEPTH WELL	REMARKS
35	A-90	2			36"	35'	Dry - Concrete wall
35	A-92	3					Dry
35	A-92	4	49'		6"	650'	* Record Nov. 1942
36	D-23	1					Filled
36	D-24	2					Filled

Range 67 West - Township 3 South

2	B-68	1			4"		Plug
2	B-65	2			6"		Capped - no data
2	B-63	3					Filled
2	B-63	4					Filled
2	B-12	5	170'			630'	Hldg. #573 - *Record Nov. 1942
3	B-62	1	29'	6'	40"	35'	Concrete
3	B-61	2	26'	18'	6"	44'	
3	B-60	3					Filled
3	B-65	4					Hand Pump - Water no data
3	B-12	5	63'	6'	3"	69'	
3	B-4	6	65'	2'	6"	67'	
3	B-6	7	52'	15'	8"	77'	Hldg. #644
3	B-37	8					Hldg. #645
3	B-42	9				700'	Filled; * Record Nov. 1942
3	B-43	10	54'	5'	18"	59'	Tile Casing - 4' Brick wall
3	B-44	11			6"	500'	Plugged * Record Nov. 1942
3	B-56	12	47'		48"		Hand Pump - Vertical Drive Shaft
3	B-51	13	56'	1'	6"	57'	
3	B-58	14				58'	*Record Nov. 1942. W/Motor #R5038A - 30 gal.-tank; school house #181
3	B-40	15					Hand pump, water, Cane. Cover No data
3	B-38	16	64'	4'	6"	68'	
3	B-52	17	45'	23'	48"	68'	Concrete
3	B-59	18					Hand pump-water, conc. cover, no data
3	B-54	19	34'	12'	30"	46'	6'x6'x6' Concrete
3	B-52-A	20					Hand Pump, water; covered; no data
3	B-53	21					Hand Pump, water, covered, no data
3	B-62	22					Unable to locate
3	B-39	23	65'	29'	6"	94'	
3	B-52	24	42'	1'	8"	43'	
4	B-33	1				71'	Dry
4	B-31	2					Filled
4	B-16	3	47'	7'	40"	54'	Hand Pump
4	B-21	4			48"	57'	Dry, Concrete
4	B-34	5			36"	51'	Dry, Concrete

Range 67 West - Township 3 South

4	B-13	6					Filled
4	B-17	7	60'	5'	40"	65'	Concrete
4	B-14	8				60'	Filled; * Record Nov. 1942
4	B-33-A	9	60'	18'	6"	78'	

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Range 67 West - Township 3 South (Cont'd)

SEC.	TRACT	WELL #	DEPTH TO WATER	DEPTH OF WATER	SIZE CASINGS	DEPTH WELL	REMARKS
4	B-35	10	46'	26'	6"	72'	
4	B-36	11					Filled
4	B-1	12					Derby Gate
4	B-2	13					Filled
4	B-1	14					Unable to locate
9	B-35	1				34'	Dry
9	B-35	2					Filled
9	B-35	3			4"	500'	* Recorded Nov. 1942, dropped 103' No water.
9	B-71	4	61'	14'	5"	75'	
9	B-124	5			30"	1000'	Brick Walled, cased below, * Record in Nov. 1942
9	B-37	6	51'	5'	6"	56'	
9	B-39	7				77'	Dry-Covered W/Concrete House * Record Nov. 1946
9	B-140	8	41'	3'	36"	44'	Brick walled, Bldg. #814
9	B-33	9	49'	8'	40"	56'	Concrete
	B-124	10				1000'	Filled *Record - Nov. 1942
	B-142	11				800'	Filled *Record - Nov. 1942
9	B-122	12✓				73'	Filled
9	B-122	13✓					Filled
9	B-79	14	46'	6'	36"	52'	Concrete
9	B-142	15					Filled
9	B-85	16	73'	3'	6"	76'	
9	B-123	17	53'	8'	6"	61'	
9	B-73	18	59'	13'	6"	72'	
9	B-76	19				54'	Dry
9	B-81	20	49'	9'	6"	58'	No Marker, no cover, no number
10	B-158	1	33'	1'	8"	34'	
10	B-154	2	35'	14'	48"	49'	Concrete
10	B-152	3			40"	555'	Cons. 42' to casing; water below * Record Nov. 1942
10	B-151	4			36"	45'	Dry, Concrete
10	B-153	5					Covered - no data
10	B-149	6					Filled
10	B-151	7				31'	Dry - brick walled 20' to casing
10	B-147	8	37'		6"		
10	B-150	9	35'	3'	48"	38'	Concrete
10	B-146	10	37'	3'		40'	
10	B-37	11					Filled
10	B-38	12	28'	11'	48"	39'	Concrete
10	B-39	13	36'	14'	36"	50'	Brick Walled
	B-38	14					4' 6" ^{5'} Brick walled 5', well filled
10	B-92	15				580'	5'x5'x6' Brick walled, Bldg. #183
10	B-89	16				535'	Hand pump, water, no data *Record Nov. 1942
10	B-163	17				30'	Filled *Record Nov. 1942
10	B-165	18					Hand pump, water, no data
10	B-162	19					Unable to locate

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Range 67 West - Township 3 South (Cont'd)

SEC.	TRACT	WELL #	DEPTH TO WATER	DEPTH OF WATER	SIZE CASING	DEPTH WELL	REMARKS
10	B-150	20				36'	Dry, Brick Walled
10	B-163	21				30'	Filled
10	B-36	22	42'	15'	5"	64'	
11	B-189	1	31'	2.5'	48"	33.5'	Concrete
11	B-187	2	27'	5'	48"	32'	Concrete
11	B-186	3	27'	5'	48"	32'	Concrete
11	B-185	4	32'	15'	48"	47'	Concrete
11	B-188	5	32'	6'	48"	38'	Concrete
11	B-184	6	31'	2.5'	48"	33.5'	Concrete
11	B-176	7			5"	12'	Filled
11	B-175	8	23'	6'	48"	35'	Concrete
11	B-170	9	23'	6'	48"	34'	Concrete
11	B-178	10	23'	11'	6"	39'	
11	B-172	11	30'	3'	36"	33'	Concrete
11	B-180	12	27'	6'	10"	33'	
11	B-120	13	35'	1'	48"	36'	Concrete
11	B-113	14			48"		Concrete, 16' to Cent. Pump - Cased below
11	B-112	15	23'	15'	9"	33'	
11	B-118	16	19'	5'	36"	24'	Concrete
11	B-107	17	21'	4'	6"	25'	
11	B-117	18					Dry, No cover
11	B-116	19					Cover fastened, no data
11	B-110	20	24'	3'	36"	27'	Concrete
11	B-109	21	19'	6'	40"	25'	Concrete
11	B-104	22	21'	14'	6"	35'	
11	B-105	23					
11	B-101	24					Not located
11	B-100	25	24'	30'	6"	54'	Bldg. 2-833
11	B-99	26	40'	2'	6"	42'	
11	B-95	27				40'	Dry, Brick walled
11	B-120	28	25'	20'	48"	45'	Concrete
11	B-168	29	32'	2'	36"	34'	Concrete - should be marked
12	B-34	1					Dry
12	B-15	2	15'	6'	6"	21'	
12	B-12	3	25'		48"	25'	Concrete
12	B-11	4	13'	12'	36"	25'	Concrete
12	B-10	5	18'	17'	48"	35'	Concrete
12	B-22	6	22'	1.5'	48"	23.5'	Concrete
12	B-24	7	17'	12'	40"	29'	Concrete
12	B-25	8	13'	2'	3"	20'	
12	B-25	9					Filled
12	B-27	10	13'	25'	6"	40'	
12	B-29	11	22'	8'	14"-10"	30'	Double Casing
12	B-43	12			48"	19'	Dry, Concrete
12	B-45	13			48"		Dry, Concrete, 25' to casing
12	B-54	14	23'	2'		30'	
12	B-55	15			6"	22'	Dry
12	B-46	16					Dry

14 August, 1946

Sheet #6 of 6

Range 67 West - Township 3 South (Cont'd)

<u>Sec.</u>	<u>TRACT</u>	<u>WELL #</u>	<u>DEPTH TO</u> <u>WATER</u>	<u>DEPTH OF</u> <u>WATER</u>	<u>SIZE</u> <u>CASING</u>	<u>DEPTH</u> <u>WELL</u>	<u>REMARKS</u>
12	E-58	17	21'	4'	10"	25'	
12	E-59	18	26'	21'	18"	47'	Old Boilers casing
12	E-37	19	15'	4'	6"	19'	
12	E-38	20	15'	11'	8"	26'	
12	E-89	21				14'	Dry
12	E-85	22	21'	14'	6"	35'	
15	C-14	1	43'		24"	800'	Galvanized - *Record Nov. 1942
15	C-14	2	37'	43'	4"		Hdg. Locked T-822
15	C-14	3			30"		Erick Walled 34' to casing
15	C-15	4	30'	10'	6"	40'	
15	C-15	5	30'	7'	6"	37'	
16	C-13-a	1					Hand Pump - No data
16	C-18	2			6"	29'	Dry
16	C-12	3			30"	31'	Dry - Concrete
16	C-11-C	4					
16	C-10	5	42'	8'	8"	50'	
16	C-9	6	38'	9'	6"	47'	
16	C-8	7				42'	Dry
16	C-7	8	37'	8'	8"	45'	
3	C-11	9			40"		Concrete - Drive shaft w/pulley 20' to case
16	C-5	10	47'	3'		50'	18' to casing - 4'x8'x6' Pit.
16	C-3	11			12"		32' to casing - 48" Concrete pit
16	C-9	12	44'		40"	44'	Concrete
22	C-26	1	14'	2'	8"	16'	
22	C-25	2			10"		
22	C-25	3	13.5'	.5'	6"	14'	Filled to 4' of top
22	C-22	4					
22	C-25	5	13'	15'	48"	28'	Hand Pump - Water - No data
22	C-25	6	14'	18'	48"	32'	Concrete
22	C-25	7	13'	12'	48"	25'	Concrete
22	C-25	8	13'	1'	6"	14'	Concrete
21	C-19	1					6'x8'x5' Vault w/12"x12" plug in casing
21	C-19	2					Filled

32

NOTES: * Copied from Record of Nov. 26, 1942 - RMA - CWS

Compiled by Morton Serres, 14 August, 1946

APPENDIX C
U.S. GEOLOGICAL SURVEY
WELL INVENTORY SHEETS

44-67
44-67

TOWNSHIP

R/S

U. S. GEOLOGICAL SURVEY - GROUND WATER BRANCH

DATE 9/1/55

RECORD BY L.A. Hershey SOURCE RMR Files & Pers. Obs. FIELD NO.

1. LOCATION: STATE Colorado COUNTY Adams

SW 1/4 SE 1/4 SW 1/4 SEC 4 T 3 R 67 W
Derby 350 ft. N. 3,900 ft. W.
MAP RMR well location map (1942) No. 264-2105 & USGP Aerial Map

2. OWNER Rocky Mtn. Arsenal ADD Derby, Colo.

3. OWNER

4. OWNER

5. OWNER

6. OWNER

7. OWNER

8. OWNER

9. OWNER

10. OWNER

11. OWNER

12. OWNER

13. OWNER

14. OWNER

15. OWNER

16. OWNER

17. OWNER

18. OWNER

19. OWNER

20. OWNER

21. OWNER

22. OWNER

23. OWNER

24. OWNER

25. OWNER

26. OWNER

27. OWNER

28. OWNER

29. OWNER

30. OWNER

31. OWNER

32. OWNER

33. OWNER

34. OWNER

LAB

TEMP

COLOR

TDS (ppm)

HARDNESS

PERCENT NA

Beta-Gamma

SiO₂

Fe

Ca

Mg

Na

K

CO₂

HCO₃

SO₄

Cl

NO₃

B

F

ERROR:

REMARKS

USE BACK

M U
OR L
TPI QP
T.D TM
TRW TE
K T
T J
PP P
D M
O S
P P

AMETER

DEPTH

WATER LEVEL

DISCHARGE

DRAWDOWN

SPEC. CAP.

TRANSMISS.

SAT. THICKNESS

PERMEABILITY

STOR. COEFF.

PARTIAL ANAL.

COMPL. ANAL.

MECH. ANAL.

POROSITY

PERMEABILITY

SPEC. YIELD

FIELD TESTS

LABORATORY TESTS

3. ALTITUDE 465 5,200 DET. BY Interp Topo

4. TYPE DUG DRILLED DRIVER JETTED

5. DEPTH: REP T 72 FT MEAS 72.5 LS

6. CASING: DIAM. 6 IN. TO IN. TYPE GL

7. DEPTH FT. FINISH

8. AQUIFER(S) AND DEPTHS

9. WATER LEVEL 44.1 static 44.28 9/1/55

10. WHICH IS 0.25 ABOVE SURFACE

11. PUMP TYPE None CAPACITY GPM HP RPM

12. POWER KIND DRIVER HP RPM

13. YIELD FLOW GPM PUMP GPM (MEAS NEPT EST)

14. DRAWDOWN FT AFTER HRS PUMPING GPM (MEAS NEPT EST)

15. SPEC. CAP TRANS IT PERM (FIELD LAB)

16. (FIELD LAB) FOR OTHER

17. USE, DOM. STOCK, P.S., R.R., IND., IRR., OBS NONE

18. SAMPLE (YES) P. C. H. TEMP. FIELD COND (EC IN M IN C)

19. REMARKS: (TASTE, COLOR, ODOOR, ETC) No. 2 in one of RMR files

20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30.

31. 32. 33. 34. 35. 36. 37. 38. 39. 40.

41. 42. 43. 44. 45. 46. 47. 48. 49. 50.

9-183-July 1926
Revised

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES BRANCH

CS-67-4 sds

WELL SCHEDULE

Date 9/1/55, 19 55 Field No.

Record by L. A. Hecsher Office No.

Source of data R.M.A. files + field notes

1. Location: State California County Adams
Map R.M.A. well loc. map (1942) No. 7164-2195; 4 sec. 4, T. 3, N. 67
SE 1/4, SW 1/4 sec. 4, T. 3, N. 67
2. Owner: Rack & M. Adams Address Reck, Cal.
Tenant None Address
Driller Kuhnman Address
3. Topography hilly rolling plain
4. Elevation ft. above below
5. Type: Dug, drilled driven, bored, jetted 10
6. Depth: Rept. 27 ft. Meas. 27.5 ft.
7. Casing: Diam. 6 in., to in., Type 6.5
Depth ft., Finish
8. Chief Aquifer From ft. to ft.
Others
9. Water level 24.28 ft. rept. 9/1 1955 above N. Edge
Top of 6.5" Csg. which is 25 ft. below surface
10. Pump: Type None Capacity G. M.
Power: Kind Horsepower
11. Yield: Flow G. M., Pump G. M., Meas., Rept. Est.
Drawdown ft. after hours pumping G. M.
12. Use: Dom., Stock, PS., RR., Ind., Irr. Used
Adequacy, permanence Good. Ok. well
13. Quality Temp. °F.
Taste, odor, color Sample Yes No
Unit for
14. Remarks: (Log, Analysis, etc.) No. 10 12 Sec. 4 - R. M. A. Map.

9 185-July 1935
Revision

70.00
5.72
64.28

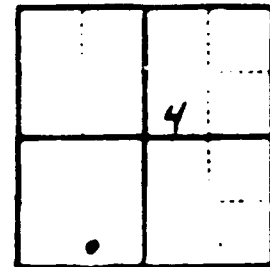
UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES BRANCH

C3-67-46da1

WELL SCHEDULE

Date 9/1/55 19 55 Field No.
Record by A. A. Hershey Office No.
Source of data RMA files + field notes

1. Location: State Colorado County Adams
Map R.M.A. well loc map (1943) No. 7164-2105; 4 Acres/Plat
SE 1/4 SW 1/4 sec 4 T 3 S R 67 E
2. Owner Rocky Mtn Arsenal Address Decorah, Colo.
Tenant NONE Address _____
Driller Unknown Address _____
3. Topography level rolling plain
4. Elevation _____ ft above _____ ft below
5. Type: Dug Drilled Driven Turned Jetted 19
6. Depth: Rept 72 ft. Meas 72.5 ft
7. Casing: Diam 6 in. to _____ in. Type 6T
Depth _____ ft. Finish _____
8. Chief Aquifer _____ From _____ ft to _____ ft
Others _____
9. Water level 64.28 ft. rept 10.55 above N. edge
TRP at 6.5. Csg. which is 25 ft. below surface
10. Pump Type NONE Capacity _____ G. M. _____
Power kind _____ Horsepower _____
11. Yield Flow _____ G. M. Pump _____ G. M. Meas. Rept Est. _____
Drawdown _____ ft after _____ hours pumping _____ G. M.
12. Use: Dom. Stock, I.R., RR., Ind., Irr. Other Unused
Adequacy, permanence Good Obs. well
13. Quality _____ Temp. _____ °F
Taste, odor, color _____ Sample Yes _____ No _____
Unit for _____
14. Remarks (Log, Analysis, etc) No 10 10 Sec. 4 - R.M.A. Map.



3 4 67

960066

ELECTRIC
LOGDRILLER'S
LOGSAMPLE
LOGANALYST
LOG

TOWNSHIP

U S GEOLOGICAL SURVEY GROUND WATER BRANCH

DATE 8/30/55

BY L.A. Hershey RMA files & B.O. D.

LOCATION STATE Colorado COUNTY Adams

NE NE NW 9 3 67

RMA & Herizi Photo 5, 1, 1, 1 - 3, 1, 1

OWNER Rocky Mtn. Arsenal Derby, Colo

TENANT

OWNER

1 ALTITUDE (MP) 5200.1
5200.4

4 TYPE LOG (SMILED) (SMILED) (SMILED)

5 DEPTH (FEET) 72 MEAS 71.3

6 CASING DIAM 5 IN TYPE G.I.

7 DEPTH (FEET) FINISH

7 AQUIFER(S) AND DEPTHS

D/W 64.55' meas. 11/6/57 below MP or

static WATER LEVEL 65.88 FT MEAS 9/11/55 BELOW top of

casing S. side WHICH IS 0.3 FT ABOVE SURFACE

9 PUMP TYPE None CAPACITY GPM HP

POWER KIND DRIVER HP

10 YIELD FLOW GPM PUMP GPM MEAS REPT INT

11 PUMPING GPM MEAS REPT INT

12 USE DOM STOCK P.S. OR INC OR (NONE) NO USERS

13 SAMPLE YES NO P.C. TEMP FREQ CORR (SEC 10° N 2°)

14 REMARKS (TASTE COLOR ODOR ETC) No test 255

SiO

Fe

Ca

Mg

Na

K

CO

HCO

SO

Cl

NO

B

F

LIMON

REMARKS

(USE BACK)

STORAGE USE

9-188-July 1935

Revised

66.00

1.12

65.88

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES BRANCH

C8-67-9622/

WELL SCHEDULE

Date 8/30/58

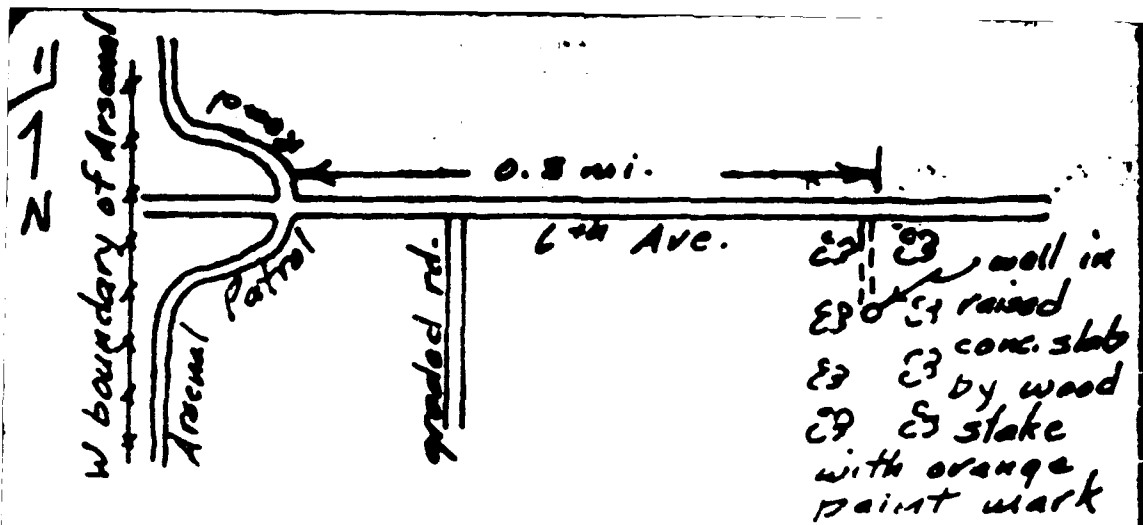
19

Field No.

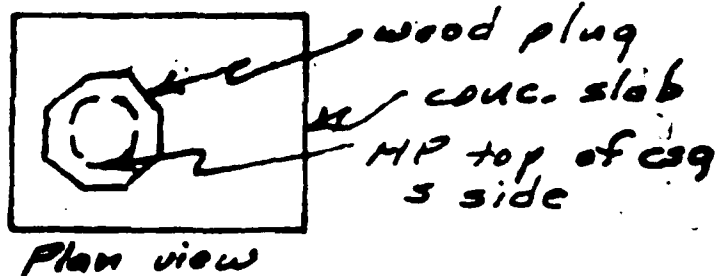
Record by L.A.H.

Office No.

Source of data Per. Obs. & R.M.A. files1/ Location: State Colorado County AdamsMap R.M.A. & Aerial PhotoNE 1/4 NW 1/4 sec. 9 T 3 N R 67 E2. Owner: Rocky Mtn. Arsenal Address Deeds, Colo.Tenant None Address _____Driller Unknown Address _____3. Topography Rolling plain4. Elevation 5200.4 ft. below MSL (VMS-ALD)5. Type: Dug drilled driven, bored, jetted 106. Depth: Rept. 12 ft. Meas. 76.3 ft.7. Casing: Diam. 5 in., to _____ in., Type 6.5Depth _____ ft., Finish _____8. Chief Aquifer _____ From _____ ft. to _____ ft.Others _____9. Water level 65.88 ft. rept. 9/1/1955 above S. Sideof G.I. Csg. in Conc. Slab which is 33 ft. below surface10. Pump: Type None Capacity _____ G.M.Power: Kind _____ Horsepower _____11. Yield: Flow _____ G.M., Pump _____ G.M., Meas. Rept. Est.Drawdown _____ ft. after _____ hours pumping _____ G.M.12. Use: Dom., Stock, PS., RR., Ind., Irr. Obs. UnusedAdequacy, permanence Good Obs. Well13. Quality _____ Temp _____ °F.Taste, odor, color _____ Sample Yes _____ No _____Unit for _____14. Remarks: (Log, Analysis, etc.) Well No. 18/304 9/1 RMA-Res. Rep.(April 1943), No. 7164-21952/10/57 - 64.55' below MP - RS



9/1
1
N



7. K 67

9467 cbc

LOG
DRILLER'S LOG
SAMPLE LOG
BENCH LOG

7 1 7 4 2 1 7 4 7 1 5 7 7 4 2

TOWNSHIP

- ☐ M U
- ☐ UR
- ☐ TP UP
- ☐ T4 TM
- ☐ TH TI
- ☐ P I
- ☐ B J
- ☐ PP P
- ☐ D M
- ☐ O S
- ☐ P

DATE **B/30/55**

U S GEOLOGICAL SURVEY GROUND WATER DIVISION

RECORDED BY **L.A. Hershey** SOURCE **RMA Files & Pers. Data**

LOCATION STATE **Colorado** COUNTY **Adams**

SW NW SW 9 3 K 67

NEAR **RMA well location near No. 7164-2105 & Aerial Photo**

URNER Rocky Mtn, Arsenal - Derby, Colo

1910' N - 4922' W

TENANT

DRILLER

ALTITUDE, MP

5210.9

HD (UMB)

TYPE

DRILLED DRIVEN TEST

DEPTH, FEET

61.0

FEET MEAN

60.3

SYSTEM

CASING, IN

6

IN TYPE

DEPTH

WATER LEVEL

AQUIFERS AND DEPTHS

DISCHARGE

DRAWDOWN

Static
L. WATER LEVEL

57.41

FEET MEAN

9/11/55

BELOW SURF. TOP

SPC CAP

of esp. S. side

WHICH IS

0.6

ABOVE SURFACE

TRANSMISS

PUMP TYPE

CAPACITY

HP

RPM

SAT THICKNESS

POWER, KW

DRIVER, RPM

PERMEABILITY

PAPER ANAL

CLUMP ANAL

MOIST ANAL

VISIBILITY

PERMEABILITY

SPC YIELD

SCHEDULE

USE (HIM) STOKER P.S. NO. 100 (NONE)

NO USERS

SAMPLE NO. P.C. & TEMP

FIELD (LUND) 100 100 100

REMARKS TASTE COLOR ODOUR ETC

Dist 5809' near 11/6/55 below M.P.

ERRON

REMARKS (MT DASH)

STORAGE ULD

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|--|--|--|--|--|--|
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| | | | | | |

Ca
Mg
Na
K

CO
HCO
SO
CI
NO

9-185-July 1936
Revised

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES BRANCH

McBee
MM-55457
cbc
C3-27-9-464

WELL SCHEDULE

Date 8/30/55, 19 57 Field No. 57
Record by L. A. Harshey Office No. 57
Source of data R. M. A. files & field obs.

1) Location: State Colorado County Adams
Map R. M. A. well loc. map No. 7164-2105 & Aerial Photo
NW 1/4 SW 1/4 sec. 9 T. 3 N. R. 67 E.

2. Owner: Racke Men. Assoc. Address Deer, Colo
Tenant None Address —
Driller Unknown Address —

3. Topography Nearly level plain

4. Elevation 5810.9 ft. above M.S.L. (V.M.B. - A10)
below

5. Type: Dug, drilled driven, bored, jetted — 10 —

6. Depth: Rept. 61.0 ft. Meas. 60.3 ft.

7. Casing: Diam. 6 in., to — in., Type E.E.
Depth — ft., Finish —

8. Chief Aquifer — From — ft. to — ft.
Others —

9. Water level 57.41 ft. rept. 9/1 10.55 above Seam
as S. Side Top of Cg. which is 6 ft. above surface
below

10. Pump: Type None Capacity — G. M. —
Power: Kind — Horsepower —

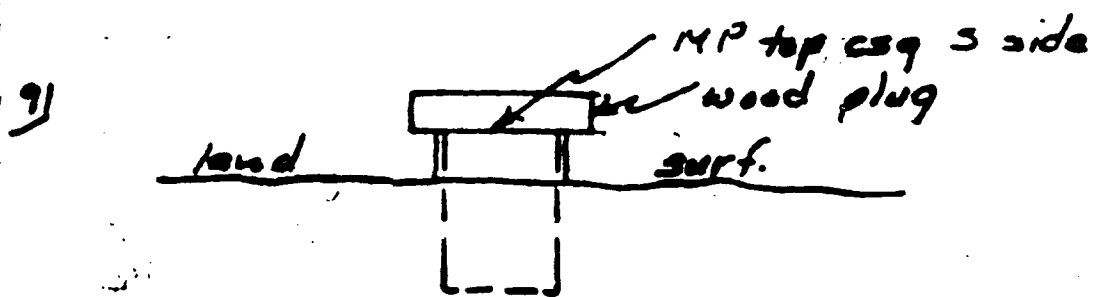
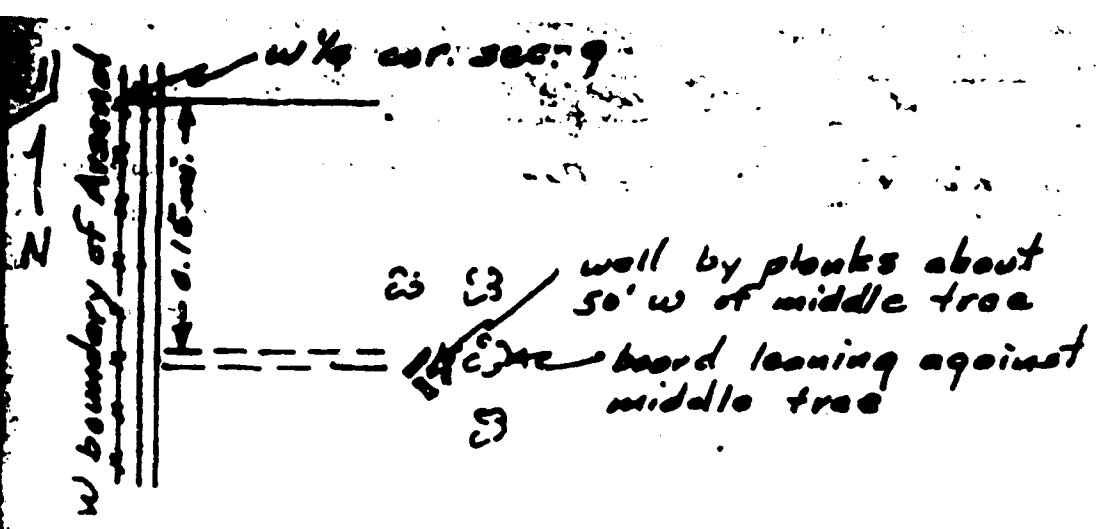
11. Yield: Flow — G. M., Pump — G. M., Meas., Rept. —
Drawdown — ft. after — hours pumping — G. M.

12. Use: Dom., Stock, PS., RR., Ind., Irr., Other Unused
Adequacy, permanence Good obs. well

13. Quality — Temp — °F.
Taste, odor, color — Sample Yes USGS
No —
Unit for —

14. Remarks: (Log, Analysis, etc.) Well #17, Sec. 9 - R. M. A. Map.

Obs. - 11/6/57 - 58.09' below MP - DC



3 9 67

10abb

10-4-55

Petri

Owner & Pers. Obs.

Qual. Water

286

Colorado

COUNTY

Adams

8.3

NW NW NE 10 3 9 67 6

171

5030 ft N, 2,060 ft W of SE cor p. 10

RMA

Derby, Colorado

93

8.7

1 ALTITUDE 5220

2 TYPE

3 DEPTH 580

4 CASING 5

5 ADDITIONAL DEPTHS

Static 51.0
L. WATER LEVEL 47.04

Csg. E. Side

6 PUMP None

7 PUMP AND

8 PUMP

9 PUMP

10 PUMP

11 PUMP

12 PUMP

13 PUMP

14 PUMP

15 PUMP

16 PUMP

17 PUMP

18 PUMP

19 PUMP

20 PUMP

21 PUMP

22 PUMP

23 PUMP

24 PUMP

25 PUMP

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About 550' E / 150' S of N. 4. P. Sec. 10

SiO

Fe

total

Ca

Mg

Na

K

CO

HCO

SO

Cl

NO

H

ANIONS

ANIONS

ANIONS

ANIONS

ANIONS

ANIONS

ANIONS

ANIONS

ANIONS

ANIONS

ANIONS

ANIONS

ANIONS

ANIONS

ANIONS

ANIONS

ANIONS

2 USE 4383

3 SAMPLE

4 REMARKS

5 REMARKS

6 REMARKS

7 REMARKS

8 REMARKS

9 REMARKS

10 REMARKS

11 REMARKS

12 REMARKS

13 REMARKS

14 REMARKS

15 REMARKS

9-188-July 1938
Revised

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES BRANCH

McBee

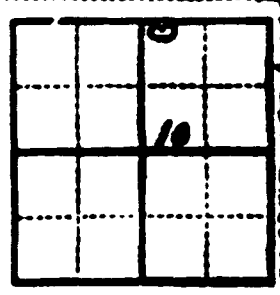
63-67-106661

WELL SCHEDULE

Date 8/30/55, 19____ Field No. _____
Record by L. H. & R. S. Office No. _____
Source of data Owner & Pers. Obs.

1. Location: State Colorado County Adams
Map USA well loc. map no. 7164-2105 & aerial photos
NW 1/4 NE 1/4 sec. 10 T. 3 S. R. 67
2. Owner Rocky Mtn. Reservoir Address Perby, Colo.
Tenant Col. Address _____
Driller unknown Address _____
3. Topography nearly flat plain
4. Elevation _____ ft. above
below
5. Type: Dug drilled, driven, bored, jetted _____ 19____
6. Depth: Rept. 580 ft. Meas. 300 ± ft.
7. Casing: Diam. 5 in., to _____ in., Type steel
Depth _____ ft., Finish _____
8. Chief Aquifer _____ From _____ ft. to _____
Others _____
9. Water level 470.4 ft. rept. 8/30 1955 above face of
lig. E. side which is 4.4 ft. above datum surface
10. Pump: Type None Capacity _____ G. M.
Power: Kind _____ Horsepower _____
11. Yield: Flow _____ G. M., Pump _____ G. M., Meas., Rept. Est. _____
Drawdown _____ ft. after _____ hours pumping _____ G. M.
12. Use: Dom., Stock, P.M., R.R., Ind., Irr., Other Unused
Adequacy, permanence good obs. well
13. Quality _____ Temp _____
Taste, odor, color _____ Sample Yes 4565
Unit for _____
14. Remarks: (Log, Analysis, etc.) Well No. 15 - See 10 - RMA No. 100
Well in covered pit with in wire enclosure
5 ft. gauge. Replace of soil cover after use?

About 350' E of 250' S of NW corner sec. 10



3 67
126686d

ELECTRIC LOG
EMERSON LOG
SAMPLE LOG
WATER METER LOG

2 1 7 4 2 1 4 2 5

TOWNSHIP

RANGE

U. S. GEOLOGICAL SURVEY (GROUND WATER BRANCH)

DATE 9/9/55

DRILLER R.O. Smith SOURCE RMA Files & Pers. Obs.

2550

COUNTY Adams

NE NW 12 3 67

4980 ft N; 4380 ft W of SE corner 12

LOWER Rocky Mtn. Arsenal and Derby, Colo.

TENANT

ADD

DRILLER

AGE

1. ALTITUDE 5746

SET BY Topo

2. TYPE (DUL) DRILLED DRIVEN SETTED

3. DEPTH 23

FT MEAS 23.0

4. LASING DIAM 42 IN 10

IN TYPE CONC.

DEPTH

FT FINISH

5. AQUIFER(S) AND DEPTHS

6. DISCHARGE

7. ORANGE

8. SPEC CAP

9. TRANSMISS

10. PUMP TYPE

11. CAPACITY

12. PERMEABILITY

13. LITHO

14. LITHO

15. LITHO

16. LITHO

17. LITHO

18. LITHO

19. LITHO

20. LITHO

21. LITHO

22. LITHO

23. LITHO

24. LITHO

25. LITHO

26. LITHO

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28. LITHO

29. LITHO

30. LITHO

31. LITHO

32. LITHO

33. LITHO

34. LITHO

35. LITHO

36. LITHO

37. LITHO

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42. LITHO

43. LITHO

44. LITHO

45. LITHO

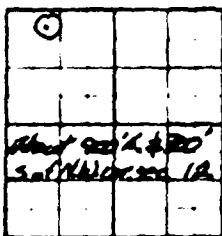
46. LITHO

47. LITHO

48. LITHO

49. LITHO

50. LITHO



SiO

F

Ca

Mg

Na

K

CO

HCO

SO

Cl

Fe

H

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121

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9-188-July 1938
Revised

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES BRANCH

McBee

WELL SCHEDULE

23-67-12 bba1

Date 9/9/55, 19... Field No.

Record by Rex O. Smith Office No.

Source of data RMA files & field obs.

1. Location: State Colorado County Adams

Map NW 1/4 NW 1/4 sec. 12 T 3 R 67

2. Owner: Rocky Mtn. Arsenal Address Perby, Colo.

Tenant Address

Driller Address

3. Topography

4. Elevation ft. above
below

5. Type: Dug, drilled, driven, bored, jetted 19...

6. Depth: Rept. ft. Meas. ft.

7. Casing: Diam. 7 1/2 in., to in., Type
Depth ft., Finish

8. Chief Aquifer From ft. to
Others

9. Water level ft. rept. 19... above
meas. below
which is ft. above
below surface

10. Pump: Type Capacity G. M.

Power: Kind Horsepower

11. Yield: Flow G. M., Pump G. M., Meas., Rept. Let.

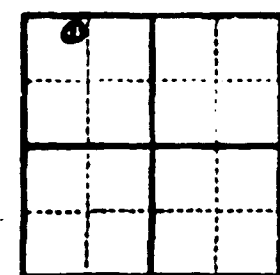
Drawdown ft. after hours pumping G. M.

12. Use: Dom., Stock, PS., RR., Ind., Irr., Obs.
Adequacy, permanence

13. Quality Temp °F.
Taste, odor, color Sample Yes
No

Unit for

14. Remarks: (Log, Analysis, etc.)



about 900' E & 500' S of NW cor. sec. 12

3 * 66 *
5 CCBT

DATE 8/30/56

U. S. GEOLOGICAL SURVEY GROUND WATER BRANCH

Qual water

DATE

BY Rex O. Smith RNA & field cbs

2770

LOCATION Colorado COUNTY Adams

7.5

SE SW 36 5 3 * 66 *
250' N
RNA well loc. map 7164-2105 & aerial photos

Rocky Mtn. Arsenal and Derby, Colo.

TENANT

ADD

DRILLER 11/22/56

ADD

1 ALTITUDE 5285.3

1 TYPE PAS & VMB

About 1200' E
and 250' N of
SW corner of S

2 DEPTH 19.0

3 CASING 36 ID

IN TYPE brick

4 DEPTH 20

5 AQUIFERS AND DEPTHS

6 DISCHARGE 18.2
7 WATER LEVEL 18.68

8 CONC. curb S side WHICH IS 0.5

9 PUMP TYPE None

10 POWER 1/2

11 DRIVER 1/2

12 YIELD 1/2

13 LPM 1/2

14 LPM MEAS. DEPT. 1/2

15 USE 1/2

16 MASS MEASMT

17 SAMPLE 1/2

18 REMARKS 1/2

19 1/2

| CATIONS | | UPPER | CPM |
|------------------|--|-------|-----|
| SiO ₂ | | 36 | |
| Fe | | | |
| PO ₄ | | 31 | |
| Ca | | 163 | |
| Mg | | 68 | |
| Na | | 262 | |
| K | | 46 | |
| CO ₃ | | 0 | |
| HCO ₃ | | 1400 | |
| SO ₄ | | 111 | |
| Cl | | 141 | |
| NO ₃ | | .4 | |
| H | | .16 | |
| I | | 1.4 | |

17 CATIONS ABOVE
18 REMARKS
19 CY-52

| | | | |
|-------------------------------|-----------------|-----------------|-------|
| 1. DATE | WELL NO | | |
| 2. BY | CO | ACC'T | |
| 3. WELL DICH | DE | SPEC CAP | |
| 4. DISCHARGE LEVEL ABOVE M.P. | TEMP | | |
| PUMP TYPE | SIZE | MAKE | |
| MOTOR NO | HP | MAKE | |
| METER NO | | AMPS | |
| READING IN | TIME | | |
| DIFFERENCE | | | |
| 8. INPUT TO MOTOR (KW. HRS) | TIME | | |
| 9. KW. | | 1.36 | |
| 10. HP | | 1.34 | |
| 11. HP ₀ | 1.09 | HP ₀ | 1.960 |
| 12. OVER ALL EFF | MP ₀ | | |
| PUMP EFF | MP ₀ | | |
| 14. RPM PUMP | DRIVER | | |
| 15. FUEL CONSUMPTION | GPH | UP | TYPE |
| 16. OPERATION HRS | OTHER | | |
| 17. ACRE FEET PUMPED | 5.430 833 | | |

18. REMARKS Well no. 1 in sec 5 on Arsonal well loc. map. Poor obs well but fills blank space on map. Plotted on base map

9-188-July 1955
Revised

19.00

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES BRANCH

7/1/55

on Keyserly
C3-66-5ccdi

WELL SCHEDULE

Date 8/30/55

19

Field No.

Record by Rex O. Smith

Office No.

Source of data RMA files & field obs

1. Location: State Colorado County Adams
Map RMA well loc. map 2164-2165 & aerial photos
SW 1/4 SW 1/4 sec. 5 T. 3 S. R. 66 W.

2. Owner: Rocky Mtn. Arsenal Address Derby, Colo.

Tenant None

Address

Driller Unknown

Address

3. Topography gently rolling plain

4. Elevation 5255.3 ft. above 1154-4718 ft. below

5. Type: Dug/drilled, driven, bored, jetted 10

6. Depth: Rept. 30 ft. Meas. 19.0 ft.

7. Casing: Diam. 3/4 in. to 1 in. Type Brick

Depth 20 ft. Finish

8. Chief Aquifer From ft. to ft.

Others

9. Water level 12.68 ft. 7/2/55 above top of conc. curb & side which is 0.5 ft. above surface

10. Pump: Type None Capacity G. M.

Power: Kind Horsepower

11. Yield: Flow G. M., Pump G. M., Meas., Rept. Est.

Drawdown ft. after hours pumping G. M.

12. Use: Dom., Stock, PN, RR., Ind., Irr. Obs. Unused

Adequacy, permanence

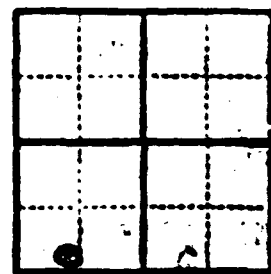
13. Quality bad Temp °F.

Taste, odor, color foul odor Sample No. VSGS

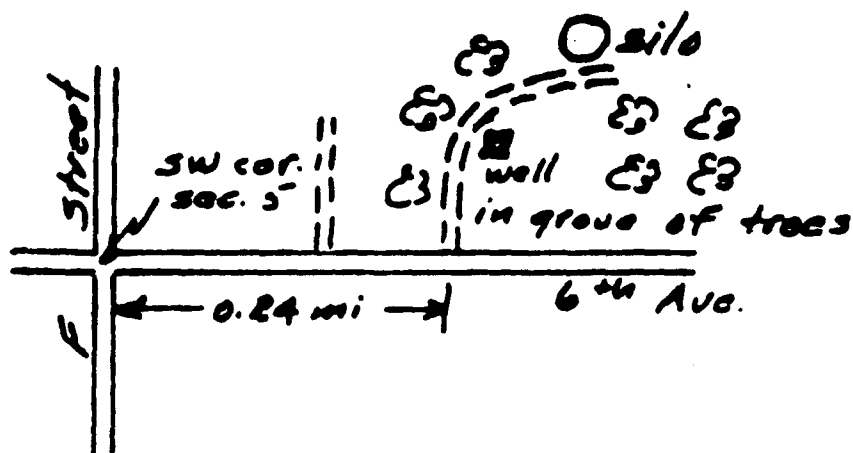
Unit for

14. Remarks (Log, Analysis, etc.) Well no. 1 in sec. 5 on Arsenal well loc. map. For obs. well but fills blank space on map.

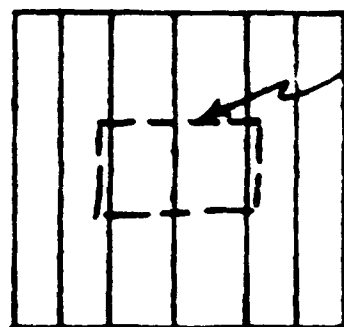
About 1200 ft. 435 ft. of water level



11
N



9/
N



MP top of conc.
curbing S side:
Lift center part
of board cover
to reveal MP

Plan view

3 * 66
5 ddadw

TOWNSHIP

RANGE

DATE
ANAL

8/30/55

U.S. GEOLOGICAL SURVEY GROUND WATER DIVISION

Rex O. Smith RMA & field obs

Colorado Adams

NE SE SE 5 3 * 66 *

RMA well loc. map no. 7164-2105 & aerial photos

Rocky Mtn. Arsenal Derby, Colo

EW

LAST TEST

DATE

700

3 1/4 ID

iron

| | | | | |
|----|----|----|----|----|
| 1 | 2 | 3 | 4 | 5 |
| 6 | 7 | 8 | 9 | 10 |
| 11 | 12 | 13 | 14 | 15 |
| 16 | 17 | 18 | 19 | 20 |
| 21 | 22 | 23 | 24 | 25 |
| 26 | 27 | 28 | 29 | 30 |

About 100' N of
950' N of
SE corner

ACQUIREMENT AND DEPTHS

12-3
131.30

iron csg.

None

9/2/55 top of

2.0

SiO

Ca

Mg

Na

K

CO

HCO

SO

Cl

Fe

Mn

Zn

Cu

Pb

As

Hg

Se

Te

Mo

Ag

Au

Ni

Cr

B

Al

S

P

V

Co

Ni

Cu

Zn

Fe

Mn

Se

Te

Mo

Ag

Au

Ni

Cr

B

Al

S

P

V

Co

Ni

Cu

Zn

Fe

Mn

Se

Te

Mo

Ag

Au

Ni

Cr

B

Al

S

P

V

Co

Ni

Cu

Zn

Fe

Mn

Se

Te

Mo

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Ni

Cr

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Al

S

P

V

Co

Ni

Cu

Zn

Fe

Mn

Se

Te

Mo

Ag

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Ni

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Zn

Fe

Mn

Se

Te

Mo

Ag

Au

Ni

Cr

B

Al

S

P

V

Co

Ni

Cu

Zn

Fe

Mn

Se

Te

Mo

Ag

Au

Ni

Cr

B

Al

S

| | | | |
|------------------------------|---------|----------|-------|
| 1 DATE | WELL NO | | |
| 2 BY | CO | ACCT | |
| 3 WELL DISCH | DIS | SPEC CAP | |
| 4 DISCHARGE LEVEL ABOVE M.P. | | TIME | |
| 5 PUMP TYPE | SIZE | MAKE | |
| 6 MOTOR NO | HP | MAKE | |
| 7 MOTOR NO | | HP | |
| READINGS | | TIME | |
| DIFFERENCE | | | |
| 8 INPUT TO MOTOR DISCH. REL. | | TIME | |
| 9 KW | | | |
| 10 HP | | | |
| 11 HP | 4.09 | HP | 1.960 |
| 12 OVER ALL EFF | MP | | |
| | MP | | |
| PUMP EFF | MP | | |
| | MP | | |
| 14 RPM PUMP | | DRIVER | |
| 15 FUEL CONSUMPTION | GPH | TYPE | |
| | | VEHICLE | |
| 16 OPERATION HRS | | OTHER | |
| | | POWER | |
| 17 FEET PUMPED | | | |
| | | | |

REMARKS 5/ Deeper than 300 ft 14/ Fits
descript. of well no. 2 in sec. 5 on
Arsenal well loc. map. Plotted on base map

9-100-July 1936
Revised

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES BRANCH

WELL SCHEDULE

C3-66-5 dda1

Date 8/30/55

19

Field No.

Record by Rex O. Smith

Office No.

Source of data RMA files & pers. obs

1 Location: State Colorado County Adams
Map RMA well loc map no. 7164-2105 & aerial photos
SE 4 SE 4 sec 5 T. 3 N. R. 66

2 Owner Rocky Mtn Arsenal Address Derby, Colo.

Tenant None

Address

Driller Unknown

Address

3 Topography nearly flat plain

4 Elevation ft above
below

5 Type: Dug/Drilled/Driven, bored, jetted 19

6 Depth: Rept. 700 ft Meas. ft

7 Casing: Diameter 3 3/4 in. in. Type iron

Depth ft, Finish

8 Chief Aquifer

From ft to

(Where)

9 Water level 151.30 ft. Rept. 10/2/1055

iron casing

9/2/1055 above top of
which is 2.0 ft above surface

10 Pump Type None

Capacity ft. M

Power Kind

Horsepower

11 Yield Flow G M, Pump G M, Meas, Rept Est

Drawdown ft. after hours pumping

G M

12 Use Dom. Stock, PS, RR, Ind, Irr. ☒ Housed

Adequacy, permanence good obs. well

13 Quality

Temp

Taste, odor, color

Sample Yes
No

Unit for

14 Remarks: (Log, Analysis, etc.) Fits descript. of well
no. 2 in sec. 5 on stream well loc
map. Deeper than 300 ft

About 130' W & 950' N of
SE cor. sec. 5

3 66
600000

8/30/55

Rex S. Smith RMA & field obs

LOCATION Colorado Adams

NE SE NE 6 3 66

RMA well loc. map 714-2105 & aerial photos

Rocky Mtn. Arsenal, Derby, Colo.

3650 N - 150' W

ALTITUDE 5254.7

DET BY VMB/PAS

DEPTH 17

15.9

7/2 ED

iron

| | | | | |
|--|--|--|--|--|
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

About 150' W
and 1600' of
NE cor. sec. 6

ACQUISITION AND DEPTHS

6.95

9/2/55 top of

board well cover at water

1.0

PUMP TYPE None

WATER ANAL

FIELD TESTS

TEMPERATURE

SPEED CAP

WIND

MOON

STAR

PLANET

VELOCITY

ACCELERATION

DECELERATION

ROTATION

OSCILLATION

STATION

COORDINATES

TIME

DATE

TIME

Mass magnet well

USGS

very foul odor

SiO

Fe

Ca

Mg

Na

K

CO

HCO

SO

Cl

NO

F

B

I

ANIONS

ANIONS

ANIONS

ANIONS

ANIONS

ANIONS

ANIONS

ANIONS

ANIONS

ANIONS

ANIONS

ANIONS

ANIONS

1 DATE _____ WELL NO _____

2 BY _____ CO _____ ALL I _____

3 WELL DISCH _____ DIS _____ MFS 149

4 DISCHARGE LEVEL ABOVE M.P. _____ 18 MP

5 PUMP TYPE _____ MFS _____ MAKE _____

6 MOTOR NO _____ HP _____ MAKE _____

7 METER NO _____ V _____ AMP _____

READINGS R.T. _____ TIME 10:11

10:11 _____ 10:11

10:11 _____ 10:11

DIFFERENCE _____

8 INPUT TO MOTOR DISC REV _____ TIME _____

9 KW. _____ 23.4

10 HP. _____ 31.34

11 HP₁ _____ 48.9 HP₂ _____ 1760

12 OVER ALL EFF. $\frac{HP_2}{HP_1}$ _____

PUMP EFF. $\frac{HP_1}{HP_2}$ _____

14 RPM PUMP _____ DRIVER _____

15 FUEL CONSUMPTION _____ G.P.H. C.P. TYPE SEASON FUEL _____

16 OPERATION HRS _____ OTHER POWER _____

AC FEET PUMPED _____

18 REMARKS *Well no. 3 in sec 6 on Arsenal well*
loc. map. D/W - 11/6/57 5:21 below M.P. 5.6m

9-108-July 1938

Revised

8 00

1 50

6.95

UNITED STATES

DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

WATER RESOURCES BRANCH

WELL SCHEDULE

Date 8/30/55

10

Field No.

Record by Rex O. Smith

Office No.

Source of data RMA files & field obs.1. Location: State Colorado County AdamsMap RMA well loc. map no. 264-2105 & aerial photosSE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 6 T. 3 R. 662. Owner: Rocky Mtn Arsenal Address Derby, Colo.tenant None

Address

Driller Unknown

Address

3. Topography nearly flat plain4. Elevation 5254.7 ft. below MSL (UMB-Ald)5. Type: Dug/drilled/driven, bored, jetted 106. Depth: Rept. 17 ft. Meas. 15.9 ft.7. Casing: Diam. 2 1/2 in., to in., Type iron

Depth ft., Finish

8. Chief Aquifer From ft. to ft.

Other

9. Water level 6.95 ft. rept. 9/2/55 above top ofboard well cover at center which is 1.0 ft. below surface10. Pump: Type None Capacity G. M.

Power: Kind

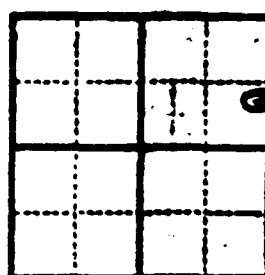
Horsepower

11. Yield: Flow G. M., Pump G. M., Meas., Rept. Est.

Drawdown ft. after hours pumping G. M.

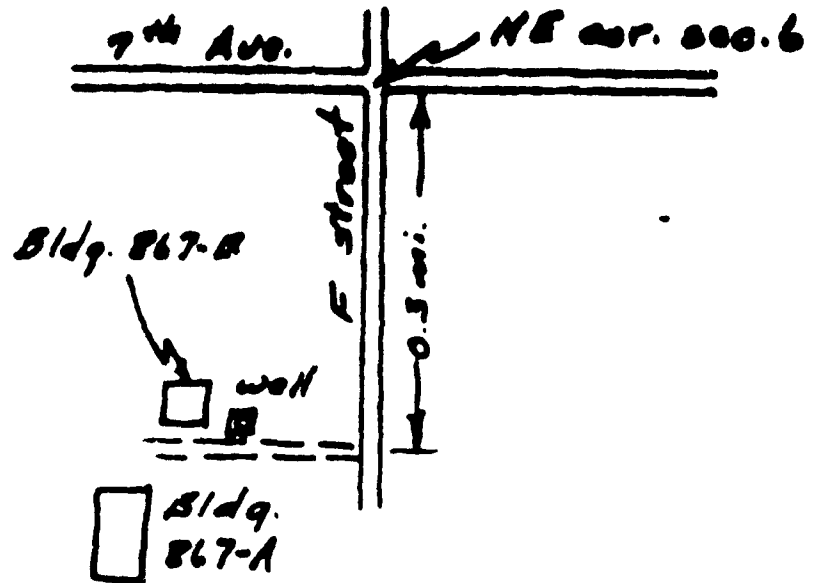
12. Use: Dom., Stock, PS., RR., Ind., Irr. Other unused

Adequacy, permanence

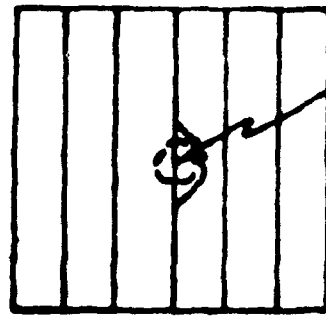
13. Quality very bad Temp. °F.Taste, odor, color extremely foul odor Sample USGSUnit for human consumption14. Remarks: (Log, Analysis, etc.) Well no. 3 in sec. 6 onArsonal well loc. map.D/W - 11/4/57 - 5.21' below M.P. - 25

About 150' N of 1630'S of

11
↑
N



91
↑
N



Plan view

MP top of board
well cover at
hole — tape
must drop into
small run eq.

3 5 66
6666bw

TOWNSHIP

U.S. GEOLOGICAL SURVEY GROUND-WATER ICN

RANGE

DATE 10-4-50

WELL NO. 7040

ELEVATION

Color

COUNTY Adams

SW SW SW 6 3 67

MAP

500 ft. N; 5,040 ft. W. of SE corner

FORM

RMA

Qual water

DATE

1060

WATER

TYPE

DEPTH

MEAS 45.5

WATER

TEMP

AQUIFER AND DEPTHS

WATER LEVEL

PUMP TYPE

PUMP RING

TO VIB. 11

WATER LEVEL

WATER

REMARKS

| | | | |
|--|--|--|--|
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

| | | |
|---------|------------------|-----|
| CATIONS | SiO ₂ | 10 |
| | Fe | |
| | Ca | 22 |
| | Mg | 37 |
| ANIONS | Na | 124 |
| | K | 58 |
| | CO ₃ | 0 |
| | HCO ₃ | 89 |
| | SO ₄ | 60 |
| | Cl | 228 |
| | NO ₃ | 11 |
| | B | .00 |
| | F | |

REMARKS

63-21

9-185-July 1935
Revised

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES BRANCH

Obs.

C 9-66-6 ccccl

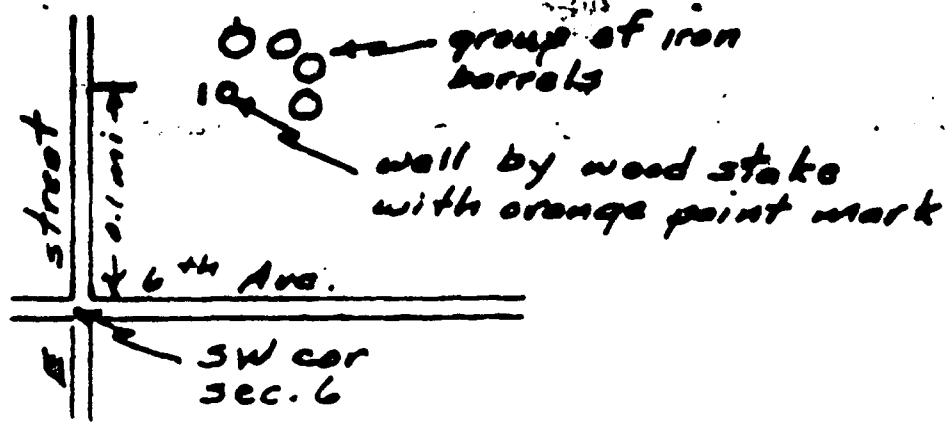
WELL SCHEDULE

Date 8/31/55, 10 Field No. _____
Record by LAH & RAS Office No. _____
Source of data RMA files & field obs.

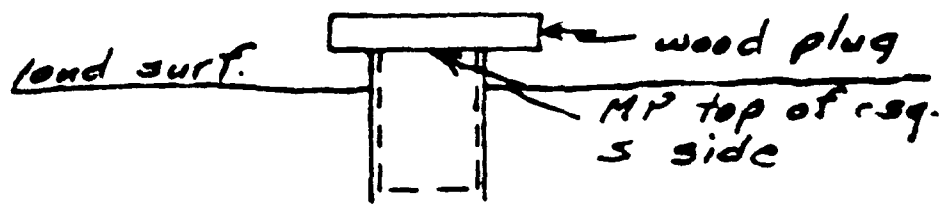
1. Location: State Colorado County Adams
Map RMA well loc map no. 714-2105 & aerial photos
SW 1/4 SW 1/4 sec. 6 T. 3 S. R. 66 E.
2. Owner: Ricky McDonald Address Deerby, Colo.
Tenant NONE Address _____
Driller Unknown Address _____
3. Topography gently rolling plain
4. Elevation 5278 ft. above _____
below _____
5. Type: Dug drilled driven, bored, jetted. 10
6. Depth: Rept. 50 ft. Meas. 45.5 ft.
7. Casing: Diam. 2 in. to _____ in. Type 3" pipe
Depth _____ ft. Finish _____
8. Chief Aquifer _____ From _____ ft. to _____ ft.
Others _____
9. Water level 31.64 ft. rept. 8/31/1955 above top
of metal cas. S side which is 2 ft. below surface
of metal cas. S side
10. Pump: Type NONE Capacity _____ G. M. _____
Power: Kind _____ Horsepower _____
11. Yield: Flow _____ G. M., Pump _____ G. M., Meas., Rept. Est. _____
Drawdown _____ ft. after _____ hours pumping _____ G. M.
12. Use: Dom., Stock, PS., RR., Ind., Irr. Obs. Unused
Adequacy, permanence good obs. well
13. Quality _____ Temp. _____ °F.
Taste, odor, color _____ Sample 10 VEAS
Date for _____
14. Remarks (Log, Analysis, etc.) Well no. 6 in sec. 6 on
aerial well loc map

About 50' N & 110' E of SW cor. Sec. 6

11
2



91



1. DATE _____ WELL NO. _____
2. BY _____ CO. _____ ACCT. _____
3. WELL DIAL. _____ DI. _____ SPEC. CAP. _____
4. DISCHARGE LEVEL ABOVE M.P. _____ TEMP. _____ °F

PUMP TYPE _____ SIZE _____ MAKE _____
MOTOR NO. _____ H.P. _____ MAKE _____
METER NO. _____ V. _____ AMPS _____

READINGS (IN) _____ TIME (H) _____
(IN) _____ (H) _____
(IN) _____ (H) _____
DIFFERENCE _____

5. INPUT TO MOTOR DISC REV _____ TIME _____
6. KW. - _____ x 30 - _____
10. HP. - _____ x 1.34 - _____
11. HP. - _____ x 0.9 - _____ HP. - _____ x 1.34 - _____

12. OVER ALL EFF. - $\frac{HP_2}{HP_1}$ - _____ %
PUMP EFF. - $\frac{HP_2}{HP_1}$ - _____ %

14. RPM. PUMP _____ DRIVER _____
15. FUEL CONSUMPTION _____ G.P.H. _____ G.P. TYPE
SEASON FUEL _____
16. OPERATION: NRS. _____ OTHER POWER _____

17. ACRE FEET PUMPED _____
5 430 033

18. REMARKS *This is well No. 1 in Sec. 8 on RMA map*
No. 2169-2185. D/W 11/8/35-11.6"
11/1/54-11.97

9-189-July 1938

Revised

13.00

1.38

11.62

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

WATER RESOURCES BRANCH

C3-66-8d22.1

WELL SCHEDULE

Date 8/30/55, 19____ Field No. _____Record by ROSEMAN Office No. _____Source of data RMA files & field obs.

1. Location: State Colorado County Adams
Map R.M.A. well loc. map & aerial photos
NE 1/4 SE 1/4 sec. 8 T. 3 N. R. 66

2. Owner: Rocky Mtn. Arsenal Address Derby, Colo.Tenant None Address _____Driller Unknown Address _____3. Topography gently rolling plain

4. Elevation _____ ft. above _____ below

5. Type: Aug drilled, driven, bored, jetted _____ 10 _____6. Depth: Rept. 22 ft. Meas. 14.5 ft.7. Casing: Diam. 30.50 in., to _____ in., Type brick

Depth _____ ft., Finish _____

8. Chief Aquifer _____ From _____ ft. to _____

Others _____

9. Water level 11.62 ft. rept. 9/2 1955 above top ofconc. well cap. S. side of batch which is 0.4 ft. above surface10. Pump: Type low (Cylinder) Capacity _____ G. M.Power: Kind None Horsepower _____

11. Yield: Flow _____ G. M., Pump _____ G. M., Meas., Rept. Est. _____

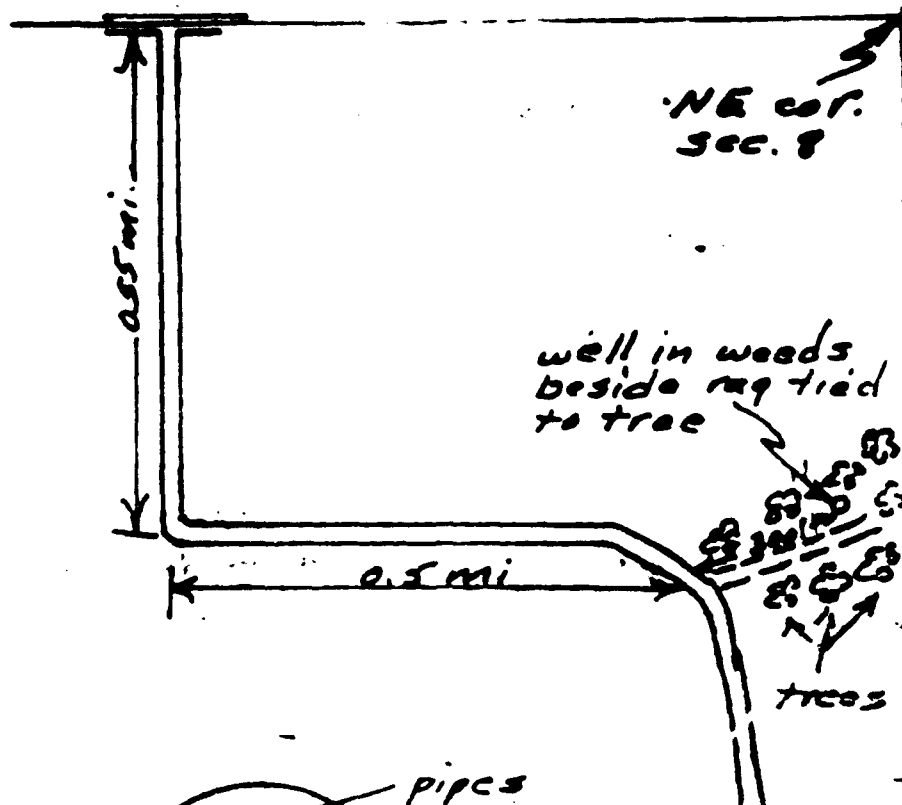
Drawdown _____ ft. after _____ hours pumping _____ G. M.

12. Use: Dom., Stock, PS., RR., Ind., Irr. Obs. unusedAdequacy, permanence fair obs. well13. Quality stagnant Temp _____ °F.Taste, odor, color _____ Sample No. 4565

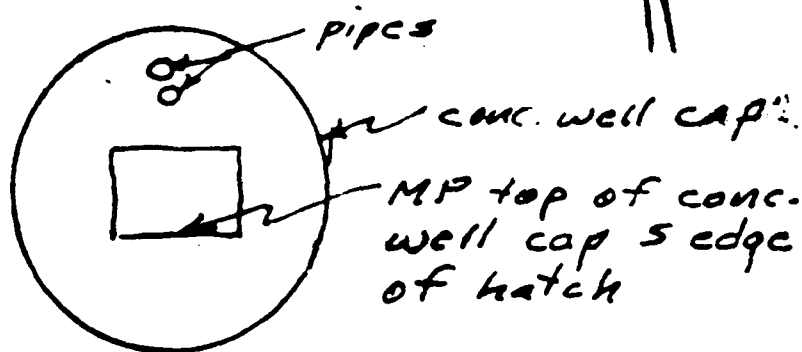
Unit for _____

14. Remarks: (Log, Analysis, etc.) #1-sec. 8 R.M.A. map no.7164-2105

1
N



9/
1
N



D/W on 11/30/55 - 11.60
D/W on 4/3/56 - 11.47

3 66
19 ccdcc

DATE
WELL NO.
TOWN
TOWNSHIP
RANGE
SECTION
CITY
COUNTY
STATE
FEDERAL
STATE
LOCAL
WATER
LEVEL
DISCHARGE
DRAINAGE
SPEC. CAP.
TRANSMISS.
SAP
TENS. PRESS.
PERMEABILITY
SPEE
YIELD

U. S. GEOLOGICAL SURVEY GROUND WATER BRANCH

DATE 8/26 55
WELL NO. R.Q.S.

SOURCE R.M.A. first observation

LAB Quality of Water

DATE

ANAL

LOCATION Colorado COUNTY Adams

7.7

SW 1/4 SW 1/4 SW 1/4 SEC 17 T. 2 N. R. 46 E. S. 19
R.M.A. Loc. map no. 7164-2105 & Aerial Photos (1954)

2,300

SUM 2

OWNER Rocky Mtn. Arsenal ADD Derby, Colo.

48

5.5

TENANT None

DRILLER Unknown

1 ALTITUDE 5179.4

Altid-VMB

| |
|-------------------------------------------------------|
| About 1 mi. E &
1/2 mi. N. of S.W.
Cor. Sec. 19 |
| |
| |
| |
| |
| |
| |
| |

SiO₂

14

2 TYPE DUC (PULLED) DRIVEN JETTED

old

3 DEPTH REPT 14

14.5

4 CASING DIA 6

TYPE PIPE

DEPTH

AQUIFERS AND DEPTHS Gal (FCL)

STATIC 13.7

WATER LEVEL 13.78

9/8

8/26

Top of

metal casing, N. side

0.3

TO BELL SURFACE

5 PUMP TYPE None

CAPACITY

GPM

POWER LINE None

DRIVER

GPM

10 YIELD 1100

GPM PUMP

GPM INCREAS REPT EST

CATIONS

Ca

200

Mg

83

Na

365

K

5.7

CO₃

0

HCO₃

222

SO₄

4270

Cl

119

NO₃

.8

R

.42

F

1.6

12 USE DOM STOCK PS AND IRR (NINE) formerly domestic

13 SAMPLE (NINE) P.C. TEMP

14 REMARKS (NINE) FOLLOW DOWN ETC. 10/3/65

ANIONS

SiO₂

Ca

Mg

Na

K

CO₃

HCO₃

SO₄

Cl

NO₃

R

F

REMARKS

10/3/65

Classification C-52

9-188-July 1938
Revised

ON KEYSORT
UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES BRANCH

McEae
MAR-55
MAR-57

WELL SCHEDULE

CR-66-19CCC1

Date 8/26/55, 19... Field No.

Record by R.O.S. Office No.

Source of data PMA files & pers. obs.

1. Location: State Colorado County Adams
Map PMA well loc. map & aerial photos of Adams Co.
SW 1/4 SW 1/4 sec. 19 T. 2 R. 66 W

2. Owner: Rocky Mtn. Arsenal Address Derby, Colo.

Tenant None Address

Driller Unknown Address

3. Topography gently rolling plain

4. Elevation 5179.4 ft. above MSL-VMO-Ald.

5. Type: Dug drilled driven, bored, jetted old 19...

6. Depth: Rept. 14 ft. Meas. 14.5 ft.

7. Casing: Diam. 6 in., to 6 in., Type stave pipe

Depth ft., Finish

8. Chief Aquifer From ft. to ft.

Others

9. Water level 13.78 ft. rept. 9/2/1955 above top of

metal cap N side which is 0.3 ft. below surface

10. Pump: Type None Capacity G. M.

Power: Kind Horsepower

11. Yield: Flow G. M., Pump G. M., Meas. Rept. Est.

Drawdown ft. after hours pumping G. M.

12. Use: Dom., Stock, PS., RR., Ind., Irr. Obs. unused

Adequacy, permanence

13. Quality Temp. °F.

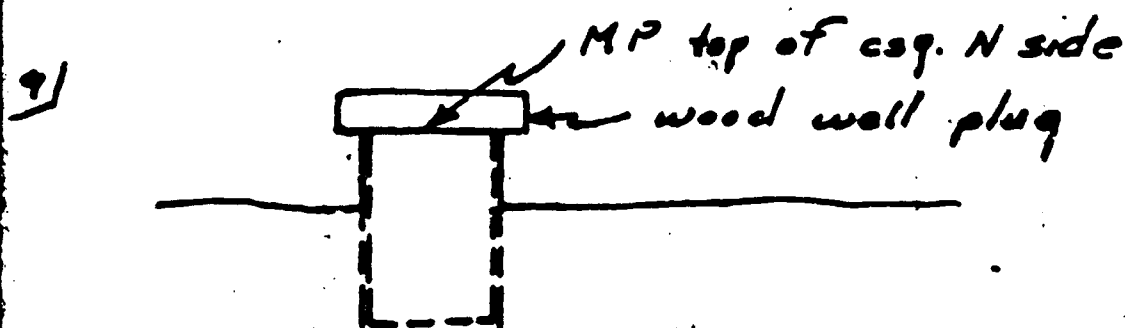
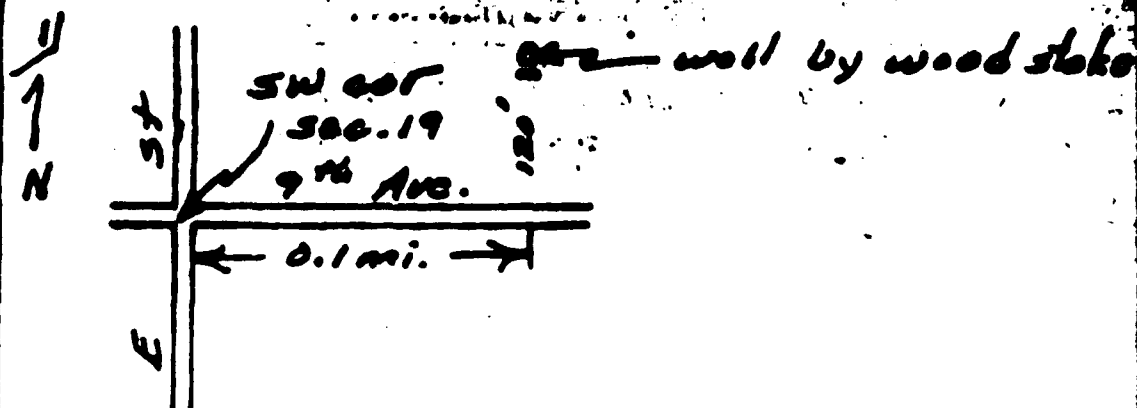
Taste, odor, color Sample No. 4363

Unit for

14. Remarks (Log, Analysis, etc.) Well no. 1 in sec. 19 on

Arsenal well loc. map no. 7164-2106

R/W - 11/6/57 & 12/6/57 when MP-PS



Elev. view

D/W on 11/30/55 — 13.43
D/W on 4/3/56 — 12.50

W 6782 SEAL OF THE STATE
OF TEXAS

2 7 66
20 00660

ELECTRIC LOG
DRILLER'S LOG
SAMPLE LOG
ALTIMETER LOG

0 1 7 2 2 1 7 4 2 1 8 2 1 7 4 2 1 8 2 2

M U
OR L
TPI UP
T4 TM
T6 TE
N T
J
MP P
D M
O S
Pa

DATE 8/26 55
U.S. GEOLOGICAL SURVEY - GROUND WATER BRANCH
COLLECTED BY R.O.S.
SOURCES L.R. Crawford & observation
LOCATION STATE Colorado COUNTY Adams
NW NE NE SEC 20 T 2 R 66
S. 130 ft N. 1000 ft. W. of SE corner.
RMA loc. map # 7164-2105 & USDA aerial photos
OWNER Rocky Mtn. Arsenal in Derby, Colo.
TENANT None
DRILLER Kruger
ALTITUDE 10000
TYPE DRILL (HILLED) OPEN JETTED
DEPTH 350
CASING DIAM 4 1/2
DEPTH 100
FINISH open hole
AQUIFERS AND DEPTHS

LAB
TEMP
C
HARDNESS
AL Ca CO Ca Mg
PERCENT

Plugged at 45
38.3
About 1000 ft. S
150 ft. S of NE
com sec 20

| | | | |
|---------|-----|--|--|
| CATIONS | SiO | | |
| | Fe | | |
| | Ca | | |
| | Mg | | |
| ANIONS | Na | | |
| | K | | |
| | CO | | |
| | HCO | | |
| ANIONS | SO | | |
| | Cl | | |
| | NO | | |
| | B | | |

DIAMETER
DEPTH
TER
VEL
DISCHARGE
DRAWDOWN
SPEC CAP
TRANSMISS
SAT
THICKNESS
PERMEABILITY
STOR
COEFF
PARTIAL
SAT
TEMP
WATER
LEVEL
PUMP
TYPE
CAPACITY
POWER
HIND
YIELD
FLOW
GPM
PUMP
GPM
MEAS
DEPT
EST
USE
DOM
STICK
PS
W
IND
INH
OBS
PRIORITY
SAMPLE
YES
NO
P
C
R
TEMP
REMARKS
TASTE
COLOR
ODOR
ETC

WATER LEVEL 37.76
IRON CASING, E. side
PUMP TYPE None
CAPACITY
POWER HIND None
YIELD FLOW
GPM PUMP
GPM MEAS DEPT EST
USE DOM STICK PS W IND INH OBS (NONE)
SAMPLE YES NO P C R TEMP
REMARKS TASTE COLOR ODOR ETC RMA #4

ERROR
REMARKS
TIME BACK

0 1 7 2 2 1 7 4 2 1 8 2 1 7 4 2 1 8 2 2

9-183
(October 1950)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES DIVISION

WELL SCHEDULE

C2-66-20 aabi

Date 8/26/50

19

Field No.

Record by Rex O. Smith

Office No.

Source of data L.R. Crawford & pers. obs.

1. Location: State Colorado County Adams
Map RMA well loc. map no 7164-2105 & aerial photos
NE 1/4 NE 1/4 sec. 20 T. 2 R. 66
2. Owner: Rocky Mtn. Arsenal Address Derby, Colo.
Tenant None Address _____
Driller Kruger Address deceased
3. Topography gently rolling plain
4. Elevation _____ ft. above _____ below
5. Type: Dug drilled driven, bored, jetted _____ 1918
6. Depth: Rept. 350 ft. Mean 32.9 ft.
7. Casing: Diam 1 1/2 in., to _____ in., Type iron
Depth 100 ft., Finish open hole
8. Chief Aquifer _____ From _____ ft. to _____
Others _____
9. Water level 37.76 ft. rept. 9/2/1945 above below at
iron 5.5 ft. E side which is 0.4 ft. below above surface
10. Pump: Type None Capacity _____ G. M. _____
Power: Kind _____ Horsepower _____
11. Yield: Flow _____ G. M., Pump _____ G. M., Meas. Rept. Est. _____
Drawdown _____ ft. after _____ hours pumping _____ G. M.
12. Use: Dom. Stock, PS, RR, Ind. Irr Other Unused
Adequacy, permanence poor obs. well
13. Quality _____ Temp. _____ °F.
Taste, odor, color reported alkaline Sample Yes _____ No _____
Unit for _____
14. Remarks: (Log, Analysis, etc.) Well no. 4 in sec. 20 on
Arsenal well loc. map, Well plugged
at 32.3 ft.

About 1000' W of 150' S of
NE cor. sec. 20

2/ 66
20 0660

U. S. GEOLOGICAL SURVEY - GROUND WATER BRANCH

DATE 8/26
BY R.O.S.
SOURCE RMA files & observation
LOCATION STATE Colorado COUNTY Adams
NN NW NW SEC 20 T 46 N R 450 N. 4370 E. W. 4 SEC 20
RMA loc map no. 7144-21051 USDA Aerial Photo
OWNER Rocky Mtn. Arsenal DERBY, Colo.
TENANT None
DRILLER UNKNOWN
ALTITUDE 5,200
TYPE DRUG (WELLED) OPEN JETTED
DEPTH 173.3
CASING DIAM 3 1/2 IN TO IN TYPE Iron
DEPTH
AQUIFER(S) AND DEPTHS
WATER LEVEL 64.11
IRON CASING, N. side
PUMP TYPE None
POWER RING None
YIELD PLUM
USE DOM STOCK PS WR 100 100 000 (NONE) formerly domestic
SAMPLE YES
REMARKS (TASTE COLOR ODOOR ETC) RMA mail # 3

LAB Qual. water
DATE ANAL
TEMP 1570
COLOR 8.8
TDS 1000 1020
ADDRESS 44
PERCENT 34 21

| CATIONS | | ppm | ppm |
|------------------|--|-------|-----|
| SiO ₂ | | 3.8 | |
| Fe | | | |
| PO ₄ | | .1 | |
| Ca | | 9.6 | |
| Mg | | 3.9 | |
| Na | | 322.0 | |
| K | | 3.6 | |
| CO ₃ | | 10 | |
| HCO ₃ | | 148 | |
| SO ₄ | | 539 | |
| Cl | | 43 | |
| NO ₃ | | 1.7 | |
| R | | .05 | |
| | | .2 | |

REMARKS (TASTE COLOR ODOOR ETC) 11-9-54

ON KAYSER

9-183
(October 1950)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES DIVISION

WELL SCHEDULE

C2-66-20 bbb1

Date 8/26/55

19

Field No.

Record by Rex O. Smith

Office No.

Source of data RMA files & pers. obs.

1. Location State Colorado County Adams
Map RMA well loc. map no. 7164-2105 & aerial photos
NW 1/4 NW 1/4 sec. 20 T. 2 R. 66 W.

2. Owner Rocky Mtn Arsenal Address Derby, Colo.
Tenant None Address —
Driller Unknown Address —

3. Topography gently rolling plain

4. Elevation ft. above
below

5. Type Dug/drilled/Driven, bored, jetted. 19

6. Depth Rept. — ft. Meas. 173.3 ft.

7. Casing Diam. 3 1/2 in. to — in., Type iron

Depth — ft., Finish —

8. Chief Aquifer — From — ft. to — ft.

Others —

9. Water level 64.11 ft. Rept. 9/2/1955 above
below
iron csg N side which is at above
below surface

10. Pump Type None Capacity — G. M.

Power Kind — Horsepower —

11. Yield Flow — G. M., Pump — G. M., Meas. Rept. Est. —

Draw — ft. after — hours pumping — G. M.

12. Use for Stock P., RR, Ind., Irr. Unusec

Adequacy, permanence good obs. well

13. Quality — Temp — °F.

Taste, odor, color — Sample Yes
No

Unfit for —

14. Remarks: (Log, Analysis, etc.) Well no. 3 in sec. 20 on
Arsenal well location map

2 in 66
✓ 30 out of 66
26663

- ☐ M U
- ☐ DR L
- ☐ TM CP
- ☐ TE TM
- ☐ TR TE
- ☐ R TO
- ☐ V I
- ☐ MP P
- ☐ D M
- ☐ O S
- ☐ W
- ☐ DISCHARGE
- ☐ DRAWDOWN
- ☐ SPEC CAP
- ☐ TRANSMISS
- ☐ SAT THICKNESS
- ☐ PERMEABILITY
- ☐ STOP TEST
- ☐ FATH. ANAL
- ☐ CLIMPI ANAL
- ☐ WASH ANAL
- ☐ POROSITY
- ☐ PERMEABILITY
- ☐ SPEC YIELD

U S GEOLOGICAL SURVEY - GROUND WATER BRANCH

DATE 8/26 55

RECORD BY R.O.S.

SOURCE RMA files observation

LOCATION STATE Colorado COUNTY Adams

NW SW SW Sec 30 T 2 R 66

RMA loc. map no. 7164-2105 & USDA. Aerial Photos

OWNER Rocky Mtn. Arsenal - Derby, Colo.

TENANT None

DRILLER

1 ALTITUDE IMP. 5199.8 DET BY Alid.-KMB.

2 TYPE DUG (WELLED) - WHEN LETTID

3 DEPTH FEET 12.1

4 CASING DIA. 6 ID. IN TO IN TYPE Iron

5 ACQUISITION AND DEPTHS 9al (For)

6 WATER LEVEL 10.42

7 PUMP TYPE None

8 POWER AND None

9 YIELD FEET

10 USE DUM STOKS PS IN AND IRR OPS (NONE)

11 SAMPLE NO. 10 P C R TIME

12 REMARKS: RMA well # 6

| | |
|-----------------|---|
| 120.62 | 6 |
| 229 mi N of | |
| SW cor. sec. 30 | |
| | |
| | |
| | |
| | |
| | |

Quality of Water

LAB ANAL

LAB TEMP 1380

COUEN 8.8

HARDNESS 104

PERCENTAGE 83

Beta Gamma Unit

| | |
|-----|-----|
| SiO | 0 |
| Fe | |
| Ca | 8.0 |
| Mg | 2.0 |
| Na | 251 |
| K | 7.1 |
| CO | 18 |
| HCO | 236 |
| SO | 228 |
| Cl | 150 |
| NO | .1 |
| B | .31 |
| | .6 |

ANIONS

REMARKS: irr classification C3-3

10-3-55

ON REEDED

9-183
(October 1950)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES DIVISION

cc 61
C2-66-30 ccb 1

WELL SCHEDULE

Date 8/26/55

Field No.

Record by Rex O. Smith

Office No.

Source of data RMA files & pers. obs.

1. Location: State Colorado Adams
Map RMA well loc. map 714-2105 & aerial photos

2. Owner Rocky Mtn Arsenal Address Derby, Colo.

Tenant

Address

Driller

Address

3. Topography gently rolling plain

4. Elevation 5199.5 ft. above G.S.

5. Type: Dug/drilled/driven, bored, jetted.

6. Depth: Rept. ft. Meas. 12.1 ft.

7. Casing Diam. 6 in. to in. Type iron.

Depth ft., Finish

8. Chief Aquifer From ft. to

Others

9. Water level 10.42 ft. 9/2/1955 above top of
iron casing N side which is 0.3 ft. below surface

10. Pump: Type NRC Capacity G. M.

Power: Kind Horsepower

11. Yield: Flow G. M., Pump G. M., Meas., Rept. Est.

Drawdown ft. after hours pumping G. M.

12. Test Data: Stock, P. RR, Ind. Fr. (0.1) unused

Adequacy, permanence poor obs. well

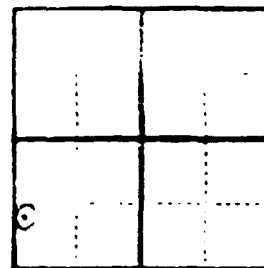
13. Quality Temp. °F.

Taste, odor, color Sample No. 1865

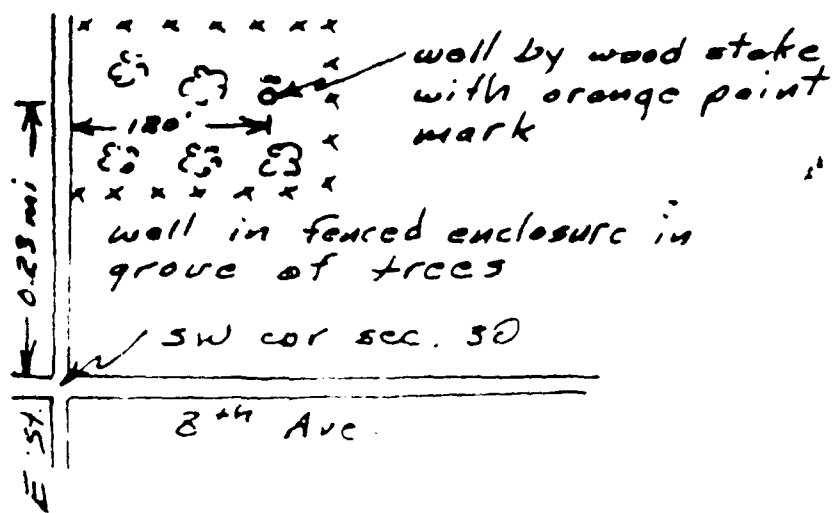
Unfit for

14. Remarks: (Log, Analyzers, etc.) Well no. 1 in SCC 30 on
Arc. well loc. map

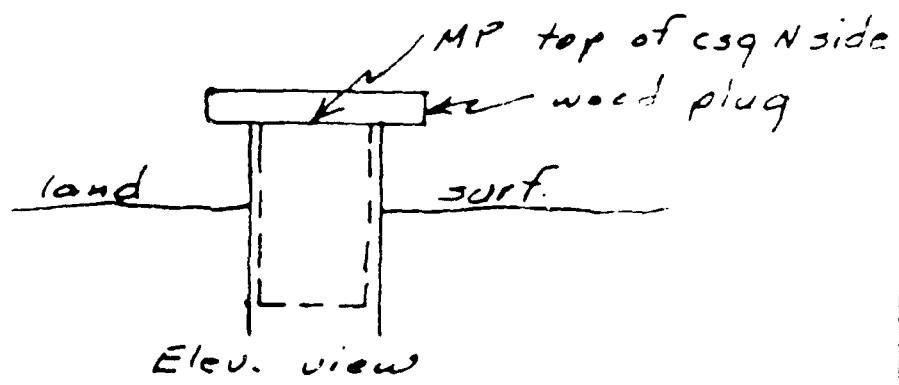
About 120' ± & 0.23 mi. N of
SCC 30



11
1
N



9



2 IN 66
31 aab1

M U
OR L
TPI OP
T₁ TM
T₂ TE
K T
J
P
D M
U
P

DIAMETER
DEPTH
WATER LEVEL
INCHES
ORIGIN
SPEC CAP
THICKNESS
AT THICKNESS
PERMEABILITY
ASTM
COEFF
VERTICAL
TEMP
ANAL
MEAN
ANAL
PERMEABILITY
SPEC FIELD

U S GEOLOGICAL SURVEY GROUND WATER BRANCH

DATE 9/9/55
RECORDED BY RGS
SOURCE RMA files & observation
LOCATION STATE Colorado COUNTY Adams
NW 1/4 NE 1/4 NE 1/4 SEC 31 T 2 N 66 E
MAP RMA loc. map no. 7164-2105
OWNER Rocky Mtn Arsenal and Derby, Colo
TENANT None

5249.6 ALID - VME

4 TYPE WELL

5 DEPTH REPT
6 CASING DIAM 6 IN TYPE Iron

7 ACQUISITION AND DEPTHS

Static 17.7
WATER LEVEL 14.69
1/2" access pipe in well 3.0
Top of

8 PUMP TYPE Jet
ELECTRIC

10 FIELD PUMP

11 MEAS REPT

12 PERM

13 USE DUM STUCK PS BR IND AND ORS

14 SAMPLE

15 REMARKS TASTE COLOR ODOR ETC

LAB
TEMP
HARDNESS
As Ca CO₃ Ca Mg
PERCENT NA
Beta-Gamma
U 10 gr L

| | | | | | | | | | |
|---------|------------------|--|--|--|--|--|--|--|--|
| CATIONS | SiO ₂ | | | | | | | | |
| | Fe | | | | | | | | |
| | Ca | | | | | | | | |
| | Mg | | | | | | | | |
| ANIONS | Na | | | | | | | | |
| | K | | | | | | | | |
| | CO ₃ | | | | | | | | |
| | HCO ₃ | | | | | | | | |
| | SO ₄ | | | | | | | | |
| | Cl | | | | | | | | |
| | NO ₃ | | | | | | | | |
| | B | | | | | | | | |

REMARKS
TIME BACK

CN KAYSOL

9-185-July 1938
Revised

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES BRANCH

WELL SCHEDULE

C2-66-31aab1

Date 9/9/55, 19 Field No.

Record by Rex O. Smith Office

Source of data RMA files & field obs

1. Location: State Colorado County Adams

Map RMA well loc. map no. 7164-2105

NE 1/4 NE 1/4 sec. 31 T. 2 R. 66 W.

2. Owner: Rocky Mtn. Arsenal Address Derby, Colo

Tenant None Address

Driller Address

3. Topography gently rolling plain

4. Elevation ft. above below

5. Type: Dug/drilled/driven, bored, jetted 19

6. Depth: Rept. ft. Meas. ft.

7. Casing: Diam. 6 in., to in., Type iron

Depth ft., Finish

8. Chief Aquifer From ft. to ft.

Others

9. Water level 14.69 ft. rept. 9/9/1955 above top of

1/2 access pipe in well seal which is 3.0 ft. above surface

10. Pump: Type Jet Capacity G. M.

Power: Kind Elec. Horsepower

Unit: Elec. G. M. Pump. G. M. 100 ft. lift

Draw-down ft. after hours pumping G. M.

12. Use: Dom., Stock, PS., RR., Ind., Irr. (Obs) unused

Adequacy, permanence rept. to be inadequate

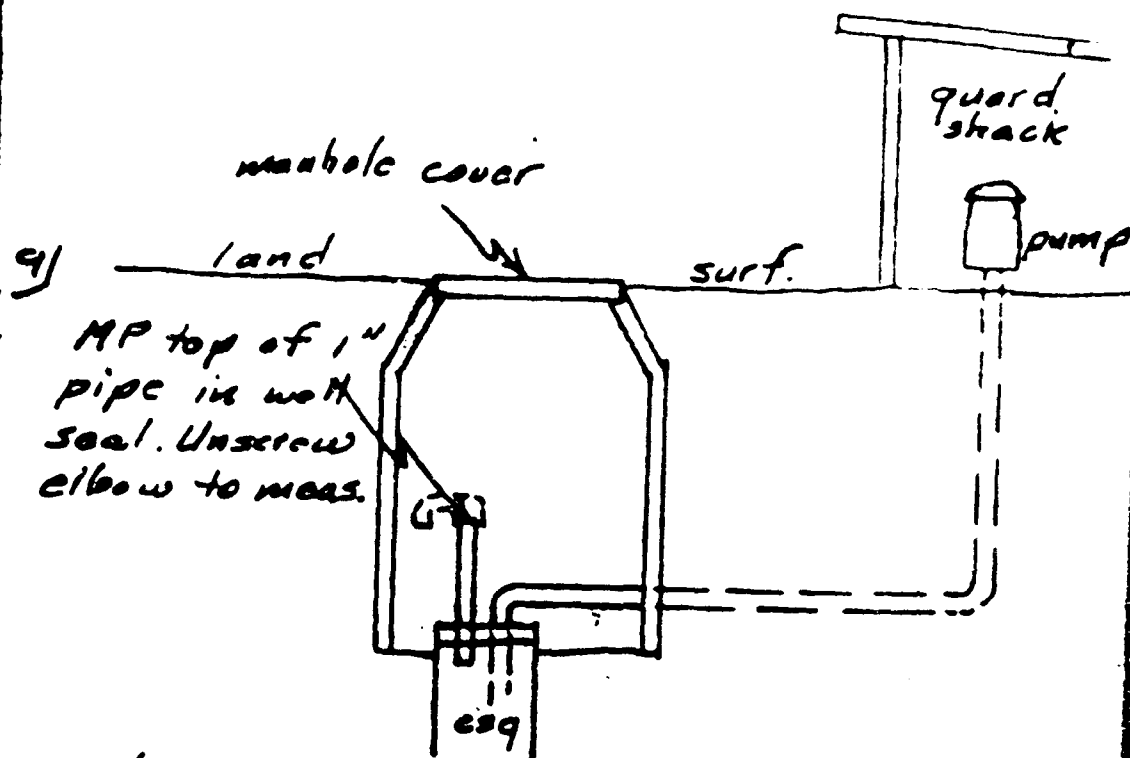
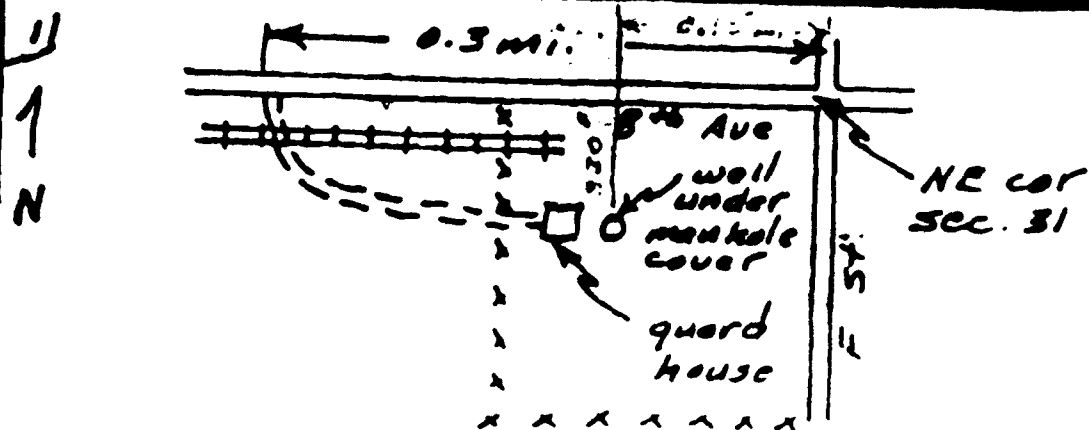
13. Quality Temp. °F.

Taste, odor, color Sample Yes No

Unit for

14. Remarks: (Log, Analysis, etc.)

Crowbar needed to pry up manhole cover over well



Not pumping when a/w meas 9/9/55

D/W on 11/30/55 - 14.80'

D/W on 4/3/56 - 14.84'

2 26 66
 31 008
 TOWNSHIP 21 S RANGE 17 E

U. S. GEOLOGICAL SURVEY - GROUND WATER BRANCH

DATE 8/26/66

WELL NO. 31 008

SOURCE RMA files & observation

LOCATION STATE Colorado COUNTY Adams

NW 1/4 NW 1/4 Sec 31 T 2 S 17 E

MAP RMA loc. map no. 4164-2105 & USDA Aerial Photos

OWNER Rocky Mtn. Arsenal, Derby, Colo.

TENANT None

DRILLER Taberna

ALTITUDE (ft) 5223.6

TYPE DUG (X) DRIVEN () JETTED ()

DEPTH (ft) 12

CASING DIA 12 IN TO IN TYPE 0.5

DEPTH (ft) 12

AQUIFER(S) AND DEPTHS Gal (Fck)

Static 23.87

WATER LEVEL 23.87

100% CASING, E. Side WHICH IS 12 FT BELOW SURFACE

PUMP TYPE None CAPACITY GPM

POWER AND None DRIVER HP

YIELD FLOW GPM PUMP GPM (MEAS. REPT. EST)

USE GPM STIM. P. S. P. AND IRR (X) (X)

SAMPLE NO. 1

REMARKS (TASTE COLOR ODOR ETC) Dug 22 ft below MR. 12. RMA well 44

LAB Quality of water

LAB TEMP 17.70

COLOR 7.6

TURBIDITY 1.040

HARDNESS 465

PERCENT Na 45

Beta Gamma 3.6

| | ppm | cpm |
|------------------|-----|-----|
| SiO ₂ | 24 | |
| Fe | | |
| Ca | 115 | |
| Mg | 43 | |
| Na | 170 | |
| K | 7 | |
| CO ₃ | 0 | |
| HCO ₃ | 576 | |
| SO ₄ | 345 | |
| Cl | 89 | |
| NO ₃ | .3 | |
| B | .3 | |
| F | 1.2 | |

ERRORS

REMARKS (TASTE COLOR ODOR ETC) 1st classification C: 10-3-58

9-185
(October 1950)

ON KEYSTONE
UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES DIVISION

McDoe

MM-57

CR-66-316661

WELL SCHEDULE

Date 8/26/55

19

Field No.

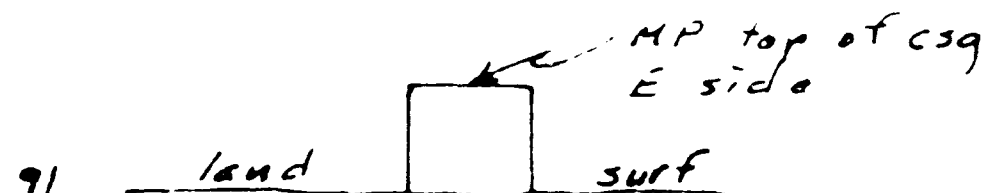
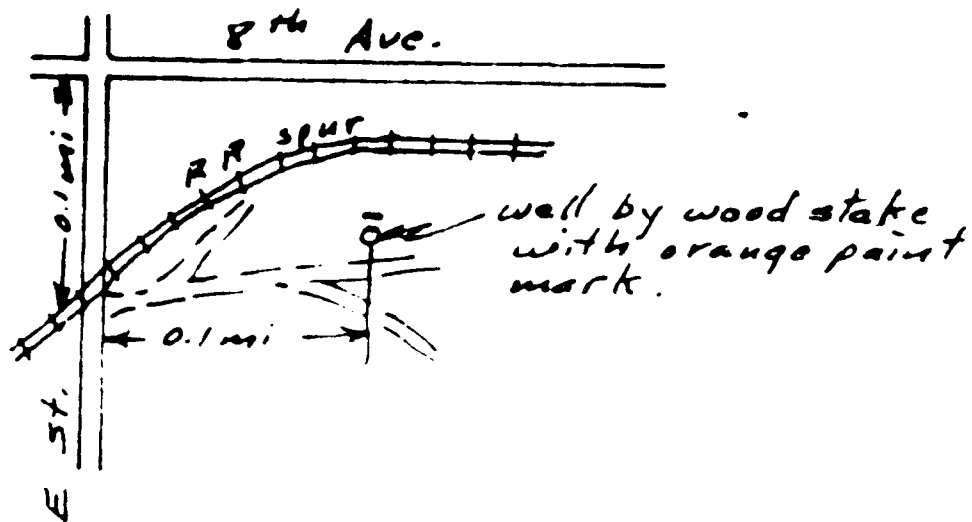
Record by Rex O. Smith

Office No.

Source of data RMA files & pers obs

1. Location: State Colorado County Adams
Map RMA well loc. map no. 7164-2105 & aerial photos
NW 1/4 NW 1/4 sec. 31 T. 2 R. 66 W.
2. Owner: Rocky Mtn. Arsenal Address Derby, Colo.
Tenant None Address —
Driller Unknown Address —
3. Topography: gently rolling plain
4. Elevation 5223.6 ft. above MP-1MB-Alid.
below
5. Type: Dug/drilled/driven, bored, jetted 19
6. Depth: Rept. 28.7 ft. Meas. 28.7 ft.
90%
7. Casing: Diam. 1.2 in. to — in. Type iron
Depth — ft. Flush —
8. Chief Aquifer — From — ft. to — ft.
Others —
9. Water level 23.87 ft. rept. 7/1/55 above top of
iron casing side which is 1.2 ft. above surface
below
10. Pump: Type None Capacity — G. M. —
Power: Kind — Horsepower —
11. Yield: Flow — G. M. Pump — G. M., Meas., Rept. Est. —
Drawdown — ft. after — hours pumping — G. M.
12. Use: Dom., Stock, PS, RR, Ind., Irr. Other Unused
Adequacy, permanence good obs well
12. Quality: — Temp. — °F.
Taste, odor, color — Sample No. VS65
Unit for —
14. Remarks: (Log, Analysis, etc.) Well no. 4 in sec. 31 on
Arsenal well loc. map
R/W - 11/6/57 - 22.92' below MP-DC

11
1
N



Destroyed 5/3/56
24 66
31 days

| U. S. GEOLOGICAL SURVEY - GROUND WATER BRANCH | | | | | | | | | |
|-------------------------------------------------|--|--|--|--|-------|--|--|--|--|
| TOWNSHIP | | | | | RANGE | | | | |
| DATE 8/29 53 | | | | | | | | | |
| QUALITY OF WATER | | | | | | | | | |
| REMARKS RMA. files & observations | | | | | | | | | |
| STATE Colorado COUNTY Adams | | | | | | | | | |
| SECTION 31 T 2 N 66 E | | | | | | | | | |
| RMA loc. map no. 7164-2105 & USDA Aerial Photos | | | | | | | | | |
| LOCALITY Rocky Mtn. Arsenal and Derby, Colo. | | | | | | | | | |
| TENANT None | | | | | | | | | |
| ALTITUDE 3254.6 | | | | | | | | | |
| TYPE (Hole) DRILLED (Hole) SETTED | | | | | | | | | |
| DEPTH 41.2 | | | | | | | | | |
| CASING DIA 30 | | | | | | | | | |
| DEPTH | | | | | | | | | |
| AQUIFERS AND DEPTHS 9-1 (FCK) | | | | | | | | | |
| STATIC 16.5 | | | | | | | | | |
| WATER LEVEL 18.32 | | | | | | | | | |
| CONC CASING, E. SIDE WHICH IS 1.8 | | | | | | | | | |
| PUMP TYPE None | | | | | | | | | |
| POWER KIND None | | | | | | | | | |
| SPEC CAP | | | | | | | | | |
| TRANSMISSION | | | | | | | | | |
| PERMEABILITY | | | | | | | | | |
| SPEL YIELD | | | | | | | | | |
| REMARKS RMA. well #6, test pumped | | | | | | | | | |
| CLASSIFICATION C3-1 | | | | | | | | | |
| 10-3-55 | | | | | | | | | |

C. M. KERRY

9-185
(October 1950)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES DIVISION

WELL SCHEDULE

C2-66-31 daci

Date 8/29/55

19

Field No.

Record by Rex O. Smith

Office No.

Source of data RMA files & pers obs

1) Location: State Colorado County Adams
Map/RMA well loc. map no. 7164-2105 & aerial photos
NE 1/4 SE 1/4 sec 31 T 2 S R 66 W

2. Owner: Rocky Mtn. Arsenal Address Derby, Colo.
Tenant None Address —
Driller Unknown Address —

3. Topography nearly flat plain

4. Elevation — ft. above
below

5. Type: Dug drilled, driven, bored, jetted 19

6. Depth: Rept. — ft. Meas. 41.2 ft

7. Casing: Diam. 30 in. to 10 in. Type Conc
Depth — ft. Finish —

8. Chief Aquifer — From — ft. to —
Others —

9. Water level 18.32 ft. rept above top of
concrete csg. E side which is 1.8 ft. above surface
below

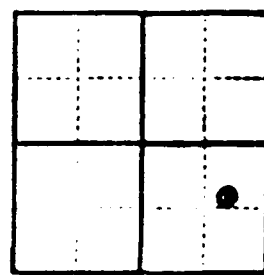
10. Pump: Type None Capacity — G. M.
Power: Kind — Horsepower —

11. Yield: Flow — G. M. Pump G. M. Meas. Rept. Est
Drawdown — ft. after — hours pumping G. M.

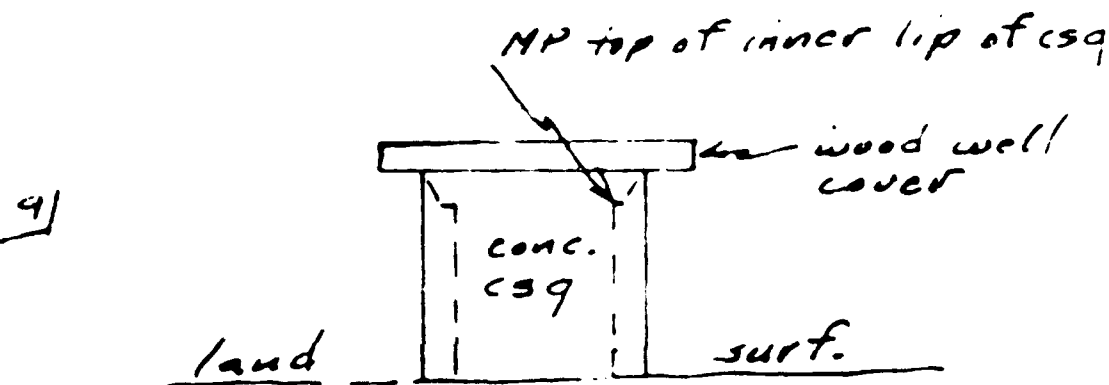
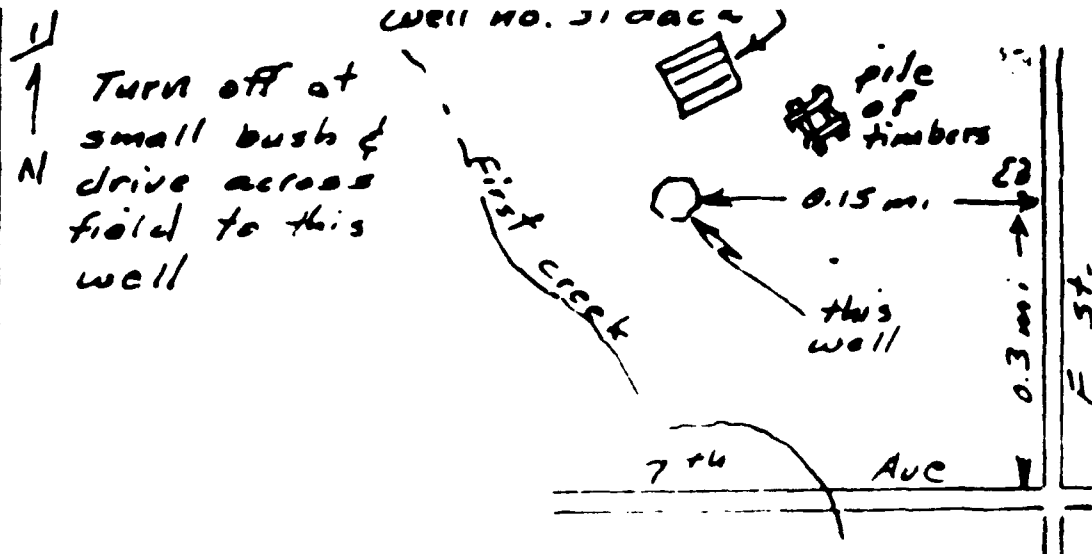
12. Use: Dom., Stock, PS, RR, Ind., Irr U.S. drained
Adequacy, permanence good obs. well

13. Quality — Temp —
Taste, odor, color Sample No. U.S.G.S.
Unfit for —

14. Remarks: (Log, Analysis, etc.) Well no. 6 in sec. 31 on
Arsenal well loc. map. This well and
nearby well were first pumped by Arsenal.



Vertical text on the right side of the grid: About 670' W & 1640' N of SE COR. SEC. 31



2 11 66
32 dcdal

| U. S. GEOLOGICAL SURVEY - GROUND WATER BRANCH | | | | | | | | | |
|---------------------------------------------------------------------------|--|--|--|--|--------------------------------------------------|--|--|--|--|
| DATE <u>8/29/55</u> | | | | | LAB <u>Quality of water</u> DATE ANAL <u>916</u> | | | | |
| RECORD BY <u>R.A.S.</u> SOURCE <u>BMA files to observer</u> | | | | | LAB TEMP <u>7.8</u> SUSP <u>565</u> | | | | |
| LOCATION STATE <u>Colorado</u> COUNTY <u>Adams</u> | | | | | COLOR <u>7.8</u> SUSP <u>565</u> | | | | |
| SE SW SE 32 2 66 | | | | | HARDNESS <u>326</u> TOTAL <u>49</u> | | | | |
| MAP <u>BMA loc map no. 7164-2105 & USDA Aerial Photos</u> | | | | | PERCENT <u>32</u> SAR <u>1.7</u> | | | | |
| OWNER <u>Rocky Mtn. Arsenal, Derby, Colo.</u> | | | | | Beta Gamma <u>UCL</u> U 10 <u>gr L</u> | | | | |
| TENANT <u>None</u> | | | | | ppm ed m | | | | |
| ELEVATION <u>5295.1</u> DXT BY <u>Alid - UMB</u> | | | | | SiO ₂ <u>28</u> | | | | |
| 4 TYPE <u>DRILL</u> DRIVEN JETTED | | | | | Fe | | | | |
| 5 DEPTH <u>49.2</u> FT MEAS | | | | | Ca <u>60</u> | | | | |
| 6 CASING DIAM <u>24</u> IN TO <u>Iron</u> | | | | | Mg <u>43</u> | | | | |
| 7 AQUIFER(S) AND DEPTHS <u>Gal (FCK)</u> | | | | | Na <u>72</u> | | | | |
| 8 WATER LEVEL <u>Static</u> <u>31.20</u> <u>9/1/55</u> <u>Top of</u> | | | | | K <u>0.5</u> | | | | |
| 9 PUMP TYPE <u>None</u> CAPACITY <u>None</u> GPM <u>None</u> | | | | | CO ₂ <u>0</u> | | | | |
| 10 YIELD FLOW <u>None</u> GPM PUMP <u>None</u> GPM MEAS. DEPT <u>None</u> | | | | | HCO ₃ <u>338</u> | | | | |
| 11 SPEC CAP <u>None</u> TRANS <u>None</u> FT PERM <u>None</u> | | | | | SO ₄ <u>116</u> | | | | |
| 12 USE <u>None</u> STOCK <u>None</u> IND <u>None</u> <u>None</u> | | | | | Cl <u>50</u> | | | | |
| 13 SAMPLE <u>None</u> P.C. & TEMP <u>None</u> | | | | | NO ₃ <u>21</u> | | | | |
| 14 REMARKS <u>Static</u> <u>31.20</u> <u>9/1/55</u> <u>Top of</u> | | | | | B <u>.20</u> | | | | |
| 15 REMARKS <u>Static</u> <u>31.20</u> <u>9/1/55</u> <u>Top of</u> | | | | | F <u>1.0</u> | | | | |
| 16 REMARKS <u>Static</u> <u>31.20</u> <u>9/1/55</u> <u>Top of</u> | | | | | Classification <u>C3-5</u> | | | | |
| 17 REMARKS <u>Static</u> <u>31.20</u> <u>9/1/55</u> <u>Top of</u> | | | | | 10-3-55 | | | | |

ON KEYSTONE

9 185
(October 1950)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES DIVISION

it's see

HM-57

CR-66-32 dgr.

WELL SCHEDULE

Date 8/29/55

19

Field No.

Record by Rox C Smith

Office No.

Source of data RMA files & pers. obs

1) Location State Colorado County Adams
Map RMA well loc. map no 7164-2105 & aerial photos
SW 1/4 SE 1/4 32 R 66 X

2) Rock Mtn Arsenal Derby, Colo.

Tenant None

Address

Driller Unknown

Address

3. Topography gently rolling plain

4. Elevation 5295.1 ft. above below M.P.-VMB-Alid

5. Type Dug/drilled, driven, bored, jetted 19

6. Depth Rept. ft. Meas. 49.2 ft

7. Casing Diam. 2 1/2 in. to in. Type iron

Depth ft. Finish

8. Conf. Aquifer

From ft. to

Others

9) Water level 31.20 ft. rept. iron casing S side

9/1/55 above top of iron casing at surface

10. Pump: Type None Capacity G. M.

Power: Kind

Horsepower

11. Yield: Flow G. M., Pump G. M., Meas., Rept. Est

Drawdown ft. after hours pumping G. M.

12. Use: Dom., Stock, PS, RR, Ind., Irr. Unused

Adequacy, permanence good obs well

13. Quantity

Taste, odor, color

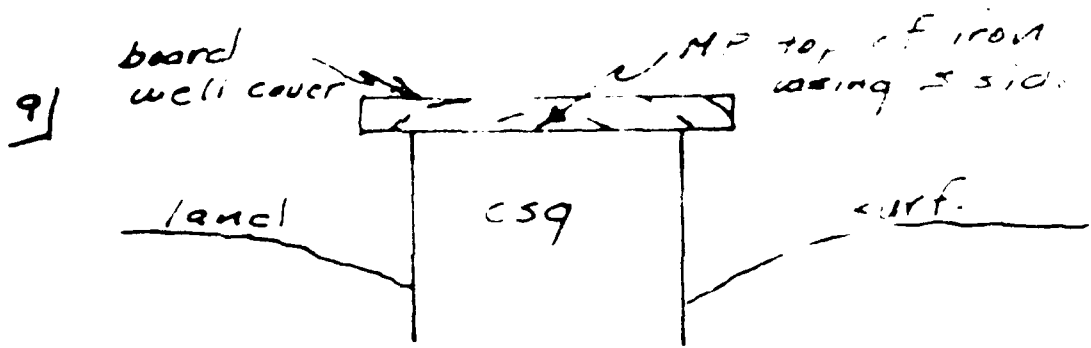
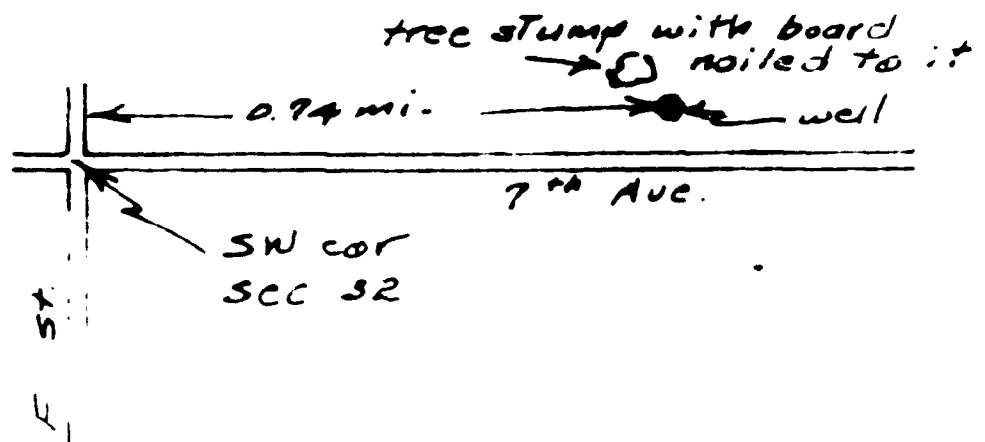
Sample USGS

Unfit for

14. Remarks: (Log, Analysis, etc.) Well no. 3 in sec. 32 on Arsenal well loc. map. About 8 ft. SE of bored nailed to tree stump

About 1450 W & 50' N of SE cor. sec. 32

11
1
2



9-165-July 1935
Revised

On Keyfont
UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES BRANCH

WELL SCHEDULE

CR-67-22 accd

Date *8/31/55*

19

Field No.

Record by *ROS & LAH*

Office No.

Source of data *R.M.A. file & Pers. Obs.*

1. Location. State *Colorado* County *Adams*

Map *R.M.A. well-100. Map No. 7164-2105*

SW 1/4 NE 1/4 sec. 22 T. 2 N. R. 67

2. Owner *Rocky Mtn. Arsenal* Address *Perks, Colo.*

Tenant *None*

Driller *Unknown*

3. Topography *gently rolling plain*

4. Elevation *ft. above*

5. Type *Dug/drilled/driven, bored, jetted* 19

6. Depth. Rept *500* ft. Mean *178.5* ft

7. Casing. Diam. *4 1/2 in.* to *in.* Type *iron*

Depth *ft.* Finish *---*

8. Chief Aquifer *---*

From *---* ft. to *---*

Others *---*

9. Water level *82.08* ft. *rept* *iron*
iron. 659 W side

8/31/55 *above* *below* *TOP of*

which is *4-2* ft. *above* *below* surface

10. Pump: Type *NONE*

Capacity *---* G. M. *---*

Power: Kind *---*

Horsepower *---*

11. Field: Flow *---* G. M. Pump *---*

G. M. Mean, Rept Est. *---*

Drawdown *---* ft. after *---*

hours pumping *---*

G. M. *---*

12. Use *Dom.* Stock, PS., RR., Ind., Irr. *Obs.* *unused*

Adequacy, permanence *---*

13. Quality *---*

Temp. *---* °F.

Taste, odor, color *---*

Sample *---* *USGS*

Unit for *---*

14. Remarks: (Log, Analysis, etc.) *Well No. 3 in Sec. 22 on*
Arsenal Map. Near westernmost of two
trees on S. edge of clump of trees

22 67 0
22 acci

ELECTRIC LOG
DRILLER'S LOG
SAMPLE LOG
PUMP LOG

2 1 7 4 2 1 3 4 2 1 5 1 1 7 4 2 1 7 4 2 1 5 1

TOWNSHIP

RANGE

U. S. GEOLOGICAL SURVEY - GROUND WATER BRANCH

DATE 8/31/55

RECORD BY RDS. & LAH SOURCE RMA File & Pers. Data

LOCATION STATE Colorado COUNTY Adams

SE & SW & NE 1/4 Sec 20 T. 2 S. R. 67 E. S. 20
340 ft N. of R.C.C. 11 W. 1/4 Sec 20
RMA Well-log map No. 7164-2105

OWNER Rocky Mtn. Arsenal, Derby, Colo

TENANT NONE

DRILLER Unknown

ALTITUDE 500

TYPE DRILLER DRIVEN BITTED

DEPTH REPT 500 FT MEAS 178.5

CASING DIAM 4 1/2 IN IN TYPE IRON

DEPTH FT FINISH

AQUIFER(S) AND DEPTHS

Static
WATER LEVEL 82.02 FT 8/31/1955 TOP OF
IRON CS9. W side WHICH IS 4.2 FT BELOW SURFACE

PUMP TYPE CAPACITY GPM HP
POWER LINE DRIVER HP RPM

YIELD PER HOUR GPM PUMP GPM MEAS REPT EST

DRAWDOWN FT AFTER HRS PUMPING GPM MEAS REPT EST

SPEC CAP TRANS - FT PUMP

USGS STOCK PS HP AND IRR NONE UNUSED

SAMPLE NO P C R TEMP FIELD COND (EC - M-H M N C)

REMARKS (TASTE COLOR ODOR ETC)

SiO2
Fe
Ca
Mg
Na
K
CO
HCO3
SO4
Cl
NO3
B
F

CATIONS
ANIONS

ppm
epm

REMARKS (TASTE COLOR ODOR ETC)

USGS

ALTITUDE

1 DATE _____ WELL NO. _____
2 BY _____ CO. _____ ALL I _____
3 WELL DICH _____ OF _____ SPEC CAP _____
4 DISCHARGE LEVEL ABOVE M.P. _____ TEMP _____
5 PUMP TYPE _____ SIZE _____ NAME _____
6 MOTOR NO. _____ HP _____ NAME _____
7 METER NO. _____ V _____ AMPS _____ R₀ _____

DESCRIPTION (ft) _____ TIME (hr) _____
IN _____ IN _____
DIFFERENCE _____

8 INPUT TO MOTOR (E.V. REL) _____ TIME _____
9 KW _____ 1.26 _____
10 HP _____ 1.34 _____
11 HP₀ _____ 1.08 _____ HP₀ _____ 1.060 _____

12 OVER ALL EFF. $\frac{HP_0}{HP}$ _____

13 PUMP EFF. $\frac{HP_0}{HP}$ _____

14 RPM PUMP _____ DRIVER _____
G.P. TYPE
SEASON FUEL

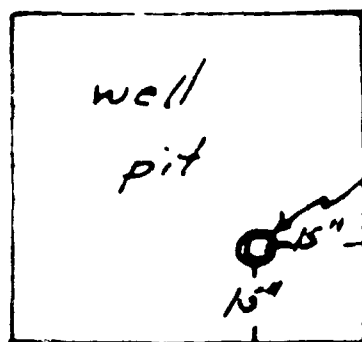
15 FUEL CONSUMPTION _____ G.P.H. _____
OTHER POWER

16 OPERATION HRS _____

17 ACRE-FEET PUMPED _____
1.420 833

18 _____ 19 _____ 20 _____
REMARKS *Well #3 in Sec 22 on RMA map*

91
1
N



Remove wood
plug

Plan view

D/W BR. 35 on 9/6/55 - LAH

2 67
22 ddado

U.S. GEOLOGICAL SURVEY GROUND WATER BRANCH

DATE 8/24/55

REPORT BY L.H.F. RDS. R.M.F. HKS & R.S. CAS.

LOCATION STATE Colorado COUNTY Adams

SE 22 T 2 N 67 E

MAP R.M.F. well location map # 764-205

OWNER Rocky Mtn. Arsenal Derby, Colo

TENANT None

DRILLER Unknown

ALTITUDE 5177.1

TYPE ☒ DRILLED ☐ OPEN ☐ TESTED

DEPTH 32.3

CASING DIA 36 IN TO IN TYPE CONC

DEPTH FT FINISH

AQUIFER(S) AND DEPTHS

D/W 2216' approx 1161' below MP. DE

WATER LEVEL 24.36 FT BEAS 9/6/55 BELOW Top of

CONC. casing N. side 1.0 FT ABOVE SURFACE

PUMP TYPE None CAPACITY GPM HP

MINOR LOSS

DRILLER

UNDRILLED

FT AFTER

NO. PUMPING

FT PERM

SPEC CAP TRANS

FT PERM

USE DUMP STOCK PS BR IND ☒ NONE ☐ USED

13 SAMPLE NO. 1 P.C. & TEMP

14 REMARKS (TASTE COLOR ODOR ETC) Stagnant, foul odor

| | | | |
|-----|-----|----|---|
| 100 | 2 | 1 | W |
| 80 | 2 | 1 | N |
| SE | SAC | CO | |
| | | | |
| | | | |
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| SiO | | | | | | | | | |
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| K | | | | | | | | | |
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|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 |
|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|

| LOG (S) | |
|------------------------------|-------------|
| 1 DATE | WELL NO. |
| 2 BY | CO ACCT |
| 3 WELL DWN | SPEC CAP |
| 4 DISCHARGE LEV. ABOVE W.P. | TEMP |
| 5 PUMP TYPE | MAKE |
| 6 MOTOR HP | MAKE |
| 7 METER NO. | AMPS |
| 8 READINGS | TIME |
| 9 DIFFERENCE | |
| 10 INPUT TO MOTOR - IN. REV. | TIME |
| 11 KW | HP |
| 12 OVER ALL EFF. | |
| 13 PUMP EFF. | |
| 14 RPM PUMP | DRIVER |
| 15 FUEL CONSUMPTION | G.P.H. TYPE |
| 16 OPERATION | OTHER POWER |
| 17 | |
| 18 | |
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REMARKS Well no. 2 in sec. 22 on Arsenal Well
Location map.

9-185
(October 1950)

UNITED STATES
DEPARTMENT OF THE INTERIOR *MM-57*
GEOLOGICAL SURVEY
WATER RESOURCES DIVISION

WELL SCHEDULE

CR-67-22 dda1

Date *8/24/55*

19

Field No.

Record by *ROS & LAH*

Loc. No.

Source of data *RMA files & pers obs*

1. Location: State *Colorado* County *Adams*

Map *RMA well loc. map no. 7164-2105*

SE $\frac{1}{4}$ *SE* $\frac{1}{4}$ *Sec 22* T. *2* N. R. *67* W.

2. Owner *Rocky Mtn. Arsenal* Address *Derby, Colo.*

Tenant *None*

Address

Driller *Unknown*

Address

3. Topography *gently rolling plain*

4. Elevation *5177.1* ft. above *MP-VMB-A/d*
below

5. Type *Dug* drilled, driven, bored, jetted

6. Depth: Rept. *—* ft. Meas. *32.3* ft.

7. Casing: Diam. *36* in. to *—* in., Type *CONC.*

Depth *33* ft., Finish *—*

8. Chief Aquifer *—* From *—* ft. to *—* ft.

Others *—*

9. Water level *24.36* ft. *rept.* *9/6/1955* above *top of*
concrete casg. N side *below* *100* ft. *below* surface
which is *100* ft. below surface

10. Pump: Type *None* Capacity *—* G. M.

Power *—*

11. Yield: Flow *—* G. M.

Drawdown *—* ft. after *—* min. *—* G. M.

12. Use: Dom., Stock, PS., RR., Ind., Irr. *(Obs.)* *Unused*

Adequacy, permanence *good obs well*

13. Quality *poor* Temp *—* °F.

Taste, odor, color *stagnant, foul odor* Sample Yes No

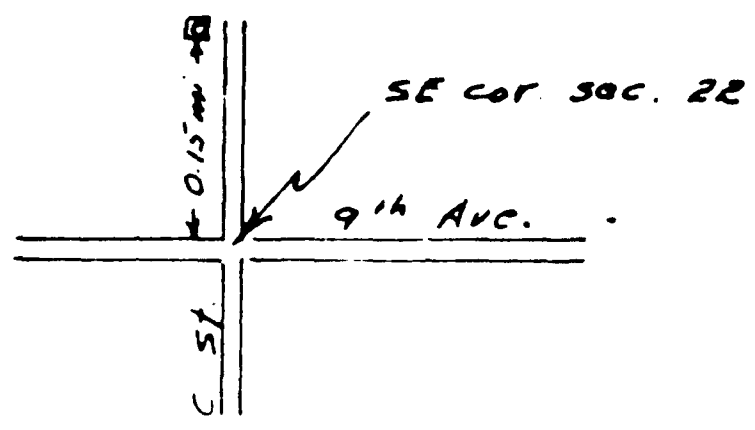
Unfit for *human consumption*

14. Remarks: (Log, Analyses, etc.) *Well no. 2 in sec. 22 on*

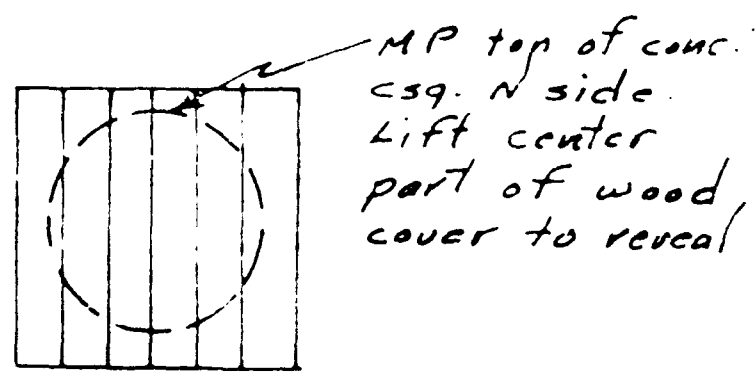
Arsenal well loc map

Dist. - 11.6/57 - 27.16 below MP - DC

11
1
N



9/
1
N



Plan view

2 12 67
23 4400(?)

ELECTRIC LOG
DRILLER'S LOG
SAMPLE LOG
BAGGAGE LOG

U.S. GEOLOGICAL SURVEY
TOWNSHIP

RANGE

U
L
OP
TM
TE
T
J
P
M
S
P

DATE 8/24/67
RECORD BY R.O.S. & L.H. SOURCE RMA, first pen. obs.
LOCATION STATE Colo. COUNTY Adams
SW SW NE 23 2 67 3300
RMA # 7164-2108 0.5 mi. N, 0.45 mi. W
OWNER Rocky Mtn Arsenal AND Derby, Colo.
TENANT none
DRILLER unknown
ALTITUDE 5186.2
TYPE DRILLED DRIVEN JETTED
DEPTH REPT 47.0
CASING DIAM 48
DEPTH
AQUIFER(S) AND DEPTHS
Static 35.7
WATER LEVEL 37.95
of E edge CONC 239
PUMP TYPE
POWER KIND
YIELD FLOW
DRAWDOWN
SPEC CAP
TRANSMISS
PERMEABILITY
STOP LOSS
PARTIAL ANAL
COMPL ANAL
MECH ANAL
PERMEABILITY
SPEC YIELD

| | | | |
|----|----|----|----|
| 24 | 01 | N | |
| 29 | 23 | W | |
| 6 | 31 | 24 | 00 |
| | | | |
| | | | |
| | | | |

Ca
Mg
Na
K
CO
NO
CI
NO
F

12 USE DOM STOCK PS WA IND IND ☒ NONE unused
13 SAMPLE YES P L H TEMP
14 REMARKS TASTE COLOR ODOR ETC 23.95' CONC 239

U.S. GEOLOGICAL SURVEY

L C G (S)

1 DATE _____ WELL NO. _____

2 V _____ CO _____ ACCT. _____

3 WELL DISCH _____ DTH _____ SPEC CAP _____

4 ISCHANGE LEVEL ABOVE M.P. _____ TEMP _____

5 PUMP TYPE _____ SIZE _____ MAKE _____

6 MOTOR _____ H.P. _____ MAKE _____

7 METER NO. _____ V _____ AMPS _____

READINGS (IN) _____ TIME (TH) _____

(100) _____ (TH) _____

(101) _____ (TH) _____

DIFFERENCE _____

8 INPUT TO MOTOR DISC REV _____ TIME _____

9 RW. _____

OVER ALL EFF. $\frac{HP_{out}}{HP_{in}}$ _____PUMP EFF. $\frac{HP_{pump}}{HP_{motor}}$ _____

10 RPM PUMP _____ DRIVER _____

FUEL CONSUMPTION _____ G.P.H. _____ TYPE _____

OPERATION _____ OTHER POWER _____

AL ME FEET PUMPED _____

REMARKS *Well #3 in Sec 23 on Arsenal Map*

9-185
(October 1950)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES DIVISION

MA-55
MA-57

MCB

WELL SCHEDULE

C2-67-290001

Date 8/24/55

19

Field No.

Record by ROS & LAH

Office No.

Source of data R.M.A. files & Pers. Obs.

1. Location: State Colorado County Adams

Map R.M.A. Map No. 7164-2105

SW 1/4 NE 1/4 sec. 23 T. 2 S. R. 67 E. W.

2. Owner: Rocky Mtn Arsenal Address Derby, Colo.

Tenant NONE

Address

Driller UNKNOWN

Address

3. Topography gently rolling plain

4. Elevation 5186.2 ft. above MP (UMS AFD)

5. Type: Drilled drilled, driven, bored, jetted 19

6. Depth: Rept. — ft. Meas. 47.0 ft.

7. Casing: Diam. 48 in., to — in., Type CONC.

Depth — ft., Finish —

8. Chief Aquifer — From — ft. to — ft.

Others —

9. Water level 37.95 ft. rept. 9/6 10.55 above Top

at E. Edge CONC. Csg. which is 25 ft. above surface

10. Pump: Type None Capacity — G. M. —

Power: Kind — Horsepower —

11. Yield: Flow — G. M., Pump — G. M., Meas. Rept. Est.

Drawdown — ft. after — hours pumping — G. M.

12. Use: Dom., Stock, PS, RR, Ind., Irr. Obs. Unused

Adequacy, permanence good obs. well

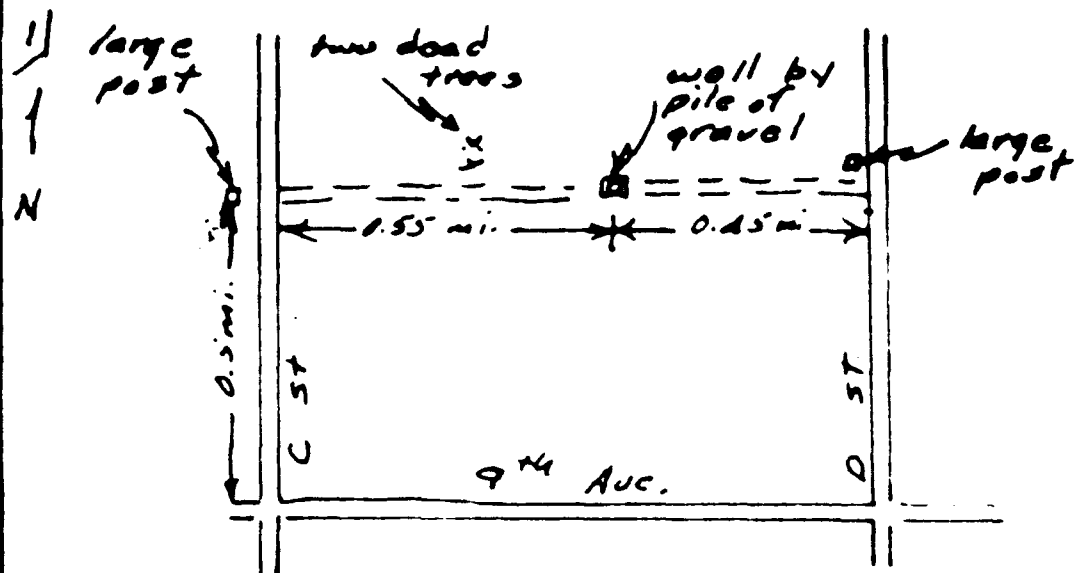
13. Quality — Temp — °F.

Taste, odor, color — Sample Yes No

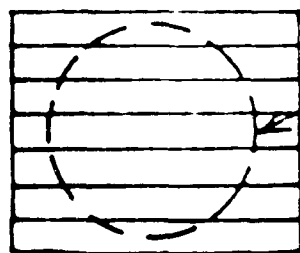
Unit for —

14. Remarks: (Log, Analysis, etc.) Well No. 3 in SEC. 23 on Arsenal Map.

D/W - 11/6/57 - 38.25 below MP - DC



9/1
N



Plan view

Lift center
part of wood
cover to reveal
NIP on top of
CSQ. E side

67
23 added

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------|---|---|---|---|---|---|---|---|----|----|----|----|----|----|-------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 |
| TOWNSHIP | | | | | | | | | | | | | | | RANGE | | | | | | | | | | | | | | |

8/24/55 U.S. GEOLOGICAL SURVEY GROUND WATER BRANCH

LRH & ROS. R.M.F. files & Field Obs.

LOCATION STATE Colorado COUNTY Adams

SE 1/4 NE 1/4 SEC 23 T 2 N R 67 E
R.M.F. well location map No. 7164-2105

OWNER Rocky Mtn. Arsenal Derby, Colo

TENANT None

DRAWER Unknown

1 ALTITUDE (ft) 5166.8 (H.P.) by KMB & DEX

2 TYPE AUG DRILLED DRIVER JETTED

3 DEPTH REPT 34 FT MEAS 30.6 FT

4 CASING DIA 42.5 IN ID IN TYPE CONC

5 DEPTH FT FINISH

7 AQUIFER(S) AND DEPTHS

21.5
WATER LEVEL 22.24 FT MEAS 9/6/55
CONC casing W. side WHICH IS 0.7 FT ABOVE SURFACE

9 PUMP TYPE None CAPACITY GPM HP

POWER KIND DRIVER HP RPM

10 YIELD FLUX GPM PUMP GPM MEAS REPT 1ST

DRAWDOWN FT AFTER HRS PUMPING GPM MEAS REPT 1ST

11 SPEC CAP TRANS FT PERM (YIELD 100)

12 USE DOM STOCK P.S. R.R. IND 100 NONE Unused

13 SAMPLE (VSS) P.C.H. TEMP FIELD COND (H.C.H. IN 25° C)

14 REMARKS (TASTE COLOR ODOOR ETC) Water stagnant

| | | | |
|-----------------------------|------------------|----------------|--|
| LAB | | DATE | |
| LAB TIME | | ANAL | |
| COLOR | PH | TEMP | |
| TDS (ppm) | RES TEMP | SUM | |
| HARDNESS | | TOTAL | |
| As Ca CO ₃ Ca Mg | | NON-CAP | |
| PERCENT NO | | SAR | |
| Beta-Gamma um C L | | U 10 gr L | |
| ppm | | cpm | |
| CATIONS | SiO ₂ | | |
| | Fe | | |
| | Ca | | |
| | Mg | | |
| | Na | | |
| | K | | |
| | CO ₃ | | |
| | HCO ₃ | | |
| | SO ₄ | | |
| | Cl | | |
| ANIONS | NO ₃ | | |
| | B | | |
| | F | | |
| | | | |
| ERROR | | CATIONS ANIONS | |
| REMARKS (SEE BACK) | | CATIONS ANIONS | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------|---|---|---|---|---|---|---|---|----|----|----|----|----|----|-------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 |
| TOWNSHIP | | | | | | | | | | | | | | | RANGE | | | | | | | | | | | | | | |

| LOG (S) | |
|-----------------------------------------------------------------------------------------------------------|-----------------------------|
| 1 DATE _____ | WELL NO _____ |
| 2 BY _____ | CO _____ ACCT _____ |
| 3 WELL DISCH _____ | DE _____ SPEC CAP _____ |
| 4 DISCHARGE LEVEL ABOVE M P _____ | TEMP _____ °F |
| 5 PUMP TYPE _____ | SIZE _____ MAKE _____ |
| 6 MOTOR NO _____ | HP _____ MAKE _____ |
| 7 METER NO _____ | V _____ AMPS _____ GA _____ |
| READINGS (in) _____ TIME (to) _____
(in) _____ (to) _____
(in) _____ (to) _____
DIFFERENCE _____ | |
| 8 INPUT TO MOTOR DISC REV _____ | TIME _____ |
| 9 KW. _____ | 1.50 _____ |
| 10 HP. _____ | 1.50 _____ |
| 11 HP. _____ | 1.50 _____ |
| 12 OVER ALL EFF. = $\frac{HP_o}{HP_i}$ _____ | |
| PUMP EFF. = $\frac{HP_o}{HP_i}$ _____ | |
| 14 RPM PUMP _____ | DRIVER _____ |
| 15 FUEL CONSUMPTION _____ | G.P. TYPE _____ |
| 16 OPERATION NOS _____ | SEASON FUEL _____ |
| 17 ACRE FEET PUMPED _____ | OTHER _____ |
| 18 _____ | 19 _____ |
| 19 REMARKS <i>Well no. 7 in sec 23 or Arsenal well loc.</i>
<i>Map</i> | |

9-185-July 1928
Revised

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

WATER RESOURCES BRANCH

WELL SCHEDULE

C2-67-23 add 1

Date 8/24/55

19

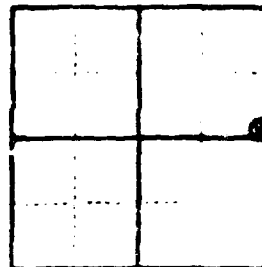
Fe

Record by RDS & LAH

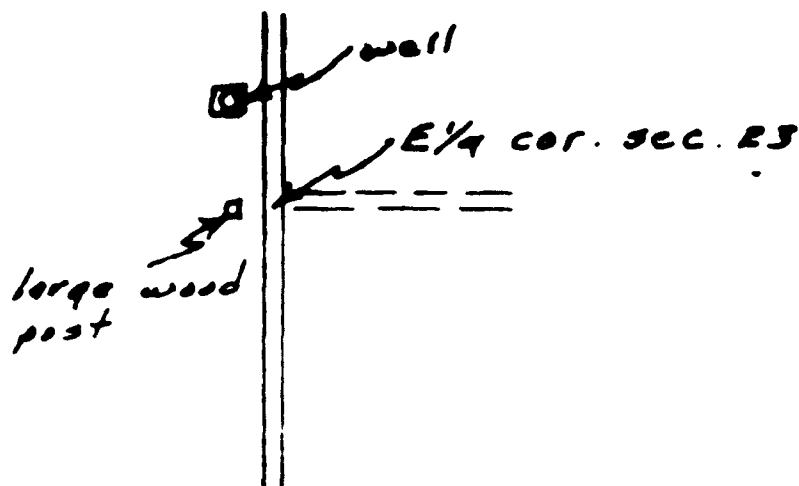
Office No.

Source of data RMA files & field obs.

1. Location: State Colorado County Adams
Map RMA well location map no. 7164-2105
SE 1/4 NE 1/4 sec. 23 T. 2 R. 67 W.
2. Owner: Rocky Mtn. Arsenal Address Darby, Colo
Tenant None Address —
Driller Unknown Address —
3. Topography gently rolling plain
4. Elevation 5166.8 ft. above ME #2
below
5. Type: Dug/drilled, driven, bored, jetted 10
6. Depth: Rept. 34 ft. Meas. 50.6 ft.
7. Casing: Diam. 4 1/2 in., to 10 in., Type conc.
Depth — ft. Finish —
8. Chief Aquifer — From — ft. to — ft.
Others —
9. Water level 22.24 ft. rept. 9/6/55 above top of
concrete casing which is 0.7 ft. above surface
below
10. Pump: Type None Capacity — G. M.
Power: Kind — Horsepower —
11. Yield: Flow — G. M., Pump — G. M., Meas. Rept. Est. —
Drawdown — ft. after — hours pumping — G. M.
12. Use: Dom., Stock, PS., RR., Ind., Irr. Obs. Unused
Adequacy, permanence good obs. well
13. Quality poor Temp — °F.
Taste, odor, color stagnant Sample Yes — No —
Use for —
14. Remarks: (Log, Analysis, etc.) Well no. 7 in sec. 23
an Arsenal well loc. map

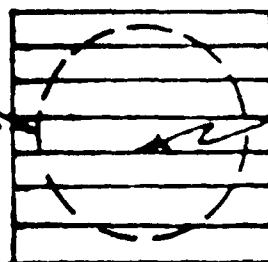


11
1
N



9/
1
N

MP no 1
top of
csq. w side



MP no 2 top of
wood well cover
at center

MP changed 10/3/55 by ROS. MP no. 2 is
top of wood well cover at center 1.0
ft. above LSD and 0.3 ft. above MP no. 1

2 3 67
23 bad CC

5/04
LANE POS RMA files 1 field obs
Colo Adams
SE NE NW 23 2 67
2,100 ft N 2,220 ft W of SE cor 23
USDA (SCS) aerial photos
Rocky Mtn. Arsenal - Derby, Colo.

Qual water

378

87

217

97

19

LANDSIDE 5155 @ Topo

About 450' W
1/4 sec 23

TYPE DRILLER

DEPTH 520

BLASTING DIA 510

AQUIFER(S) AND DEPTHS

WATER LEVEL

23g. 1. side under pump base 0.4

2. pump cylinder
Wind

| | | |
|---------|-----|-----|
| CATIONS | Ca | 00 |
| | Mg | 1.5 |
| ANIONS | Na | 87 |
| | K | 3 |
| CO | 14 | |
| MCO | 179 | |
| SO | 12 | |
| Cl | 30 | |
| NO | 7 | |
| B | 3 | |
| F | 26 | |

USE FROM 23g. for deer

10-2-68

| | | |
|------------------------------------------------------|---------------------------------------------------------------------------------------------------------|----------|
| 1 DATE | WELL NO. | |
| 2 BY | TO | ACCY |
| 3 WELL NAME | | SPEC CAP |
| 4 DISCHARGE LEVEL ABOVE M.F. | | TEMP |
| PUMP TYPE | | |
| MOTOR HP | | |
| WATER HP | | |
| HEAD LOSS | | |
| DIFFERENTIAL | | |
| 5 INPUT TO MOTOR WAT. HP. | | |
| 6 HP | | |
| 10 HP | | |
| 11 HP | | |
| 12 OVER ALL EFF. - $\frac{\text{HP}_2}{\text{HP}_1}$ | | |
| PUMP EFF. - $\frac{\text{HP}_2}{\text{HP}_1}$ | | |
| 14 BHP PUMP | | |
| 15 FUEL CONSUMPTION | | |
| 16 OPERATING WAT. | | |
| 17 GALL. FEET PUMPED | | |
| 18 | | |
| 19 | | |
| 20 REMARKS | Well #5 in sec 23 on Arsonal well loc. map
7164-2105. Pump installed on well - unable to
measure. | |

9-185
(October 1950)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES DIVISION

WELL SCHEDULE

C2-67-23 bad

Date 8/24/55

10

Field No.

Locality: CAN & ROS

Source: RMA Files & field notes

1. Location: NE 1/4 of Agric. Sec. 23, T. 2 N., R. 23 E., S. 20 N.

2. Owner: Rocky Mountain Arsenal, Denver, Colo.

Tenant:

Driller:

3. Topography: very gently rolling

4. Elevation: ft. above/below

5. Type: Dig. (drilled) driven, bored, jetted

6. Depth: Rept. 520 ft. Meas. ~~520~~ ft.

7. Casing: Diam. 6" Dr. to ft. below

Depth: ft. Finish:

8. Chief Aquifer:

From:

To:

Others:

9. Water level: ft. rept. mean

19

always below top of ~~drill~~ surface

Csg. 5' side under pump base which is 0.4 ft. below surface

10. Pump: Type Hand-operated Capacity: G. M.

Power: Kind: Horsepower:

11. Yield: Flow: G. M. Pump: G. M. Meas. Rept. Est.

12. Casing: Stock, P.S., I.D., Dr. (Obs.)

Adaptability, permanence:

13. Quality: Temp: F

Taste, odor, color:

Sample: Yes No

Unit for:

14. Remarks: (Log, Analysis, etc.) Well no. 5 in sec. 23 on Arsenal well loc map T14-2105. Pump installed on well shaft to meas. p/w

23 67
1336

U.S. GEOLOGICAL SURVEY GROUND WATER BRANCH

DATE 8/24 58
LAT/ROS RMA files 1 pers. obs
COUNTY Adams
NE SW SW 23 2 67
RMA Well loc. map 7164-2106
LOCAL Rocky Mtn Arsenal in Derby, Colo.

OWNER none
UNKNOWN
518.2
3178.4
TYPE OF WELL DRILLED DRIVEN SETTER

DEPTH 63
CASING DIA 24
IRON

WATER LEVEL 45.67
WOOD WELL RIM E SIDE
PUMP TYPE CENT.
POWER KIND NONE
CAPACITY
DRIVEN
GPM MEAS DEPT. 141

| | | | |
|--|--|--|--|
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

| CATIONS | | p.p.m. | e.p.m. |
|------------------|--|--------|--------|
| SiO ₂ | | | |
| Fe | | | |
| Ca | | | |
| Mg | | | |
| Na | | | |
| K | | | |
| CO | | | |
| HCO ₃ | | | |
| SO ₄ | | | |
| Cl | | | |
| NO ₃ | | | |
| F | | | |

USE 100 MIN. UNUSED, FORMERLY DOWNS
SAMPLE
REMARKS (TASTE COLOR ODOR ETC.)

REMARKS (TASTE COLOR ODOR ETC.)

| LOG (S) | |
|------------------------------------------------------------------------|-------------|
| 1 DATE | WELL NO |
| 2 BY | CO ACCT |
| 3 WELL DISCH | DE SPEC CAP |
| 4 DISCHARGE LEVEL ABOVE M.P. | TEMP |
| 5 PUMP TYPE | SIZE MAKE |
| 6 MOTOR NO | HP MAKE |
| 7 METER NO | V AMPS |
| READINGS (in) _____ TIME (in) _____
(out) _____
DIFFERENCE _____ | |
| 8 INPUT TO MOTOR DISC REV | TIME |
| 9 KW | 135 |
| 10 HP | 134 |
| 11 HP | 133 - 134 |
| 12 OVER ALL EFF | MP |
| 13 PUMP EFF | MP |
| 14 RPM PUMP | DRIVER |
| 15 FUEL CONSUMPTION | G.P. TYPE |
| 16 OPERATION HRS | OTHER POWER |
| 17 ACRE-Feet PUMPED | 1430 033 |
| 18 REMARKS Well A / in sec 23 on RMA map | |

9-108-July 1928
Revised

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES BRANCH

WELL SCHEDULE

C2-67-23 ccal

Date 8/24/35, 19 35 Field No.

Record by LAN & ROS

Source of data R.M.A. files & pers. obs.

1. Location: State Colorado County Adams

Map R.M.A. well loc. map no. 7164-2

SW 1/4 SW 1/4 sec. 23 T. 2 R. 67

2. Owner Rocky Mtn. Arsenal Address Derby, Colo

Tenant None Address

Driller Unknown Address

3. Topography nearly flat plain

4. Elevation ft. ^{above} _{below}

5. Type: Dug, drilled, driven, bored, jetted 19

6. Depth: Rept. 63 ft. Meas. 63.0 ft.

7. Casing: Diam. 24 in., to in., Type iron

Depth ft., Finish

8. Chief Aquifer From ft. to ft.

Others

9. Water level 45.67 ft. ^{rept.} _{meas.} 9/6 1935 ^{above} _{below} top of

wood well rim & side which is 2.1 ft. ^{above} _{below} surface

10. Pump Type None Capacity G. M.

Power

11. Yield Flow G. M. Pump G. M. per hour

Drawdown ft. after hours pumping G. M.

12. Use: Dom., Stock, PS., RR., Ind., Irr. Obs. Unused

Adequacy, permanence good obs. well

13. Quality Temp. °F.

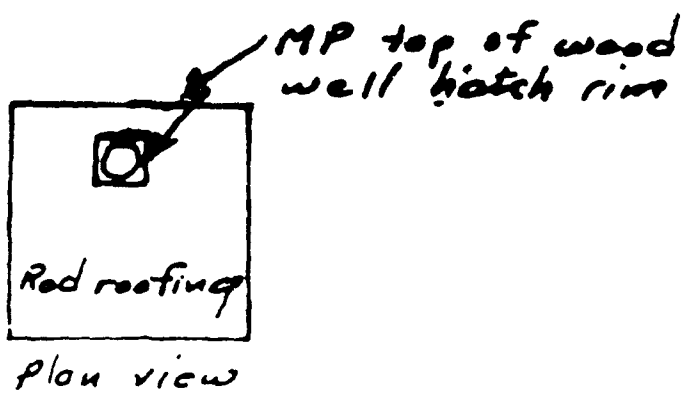
Taste, odor, color Sample Yes
No

Unit for

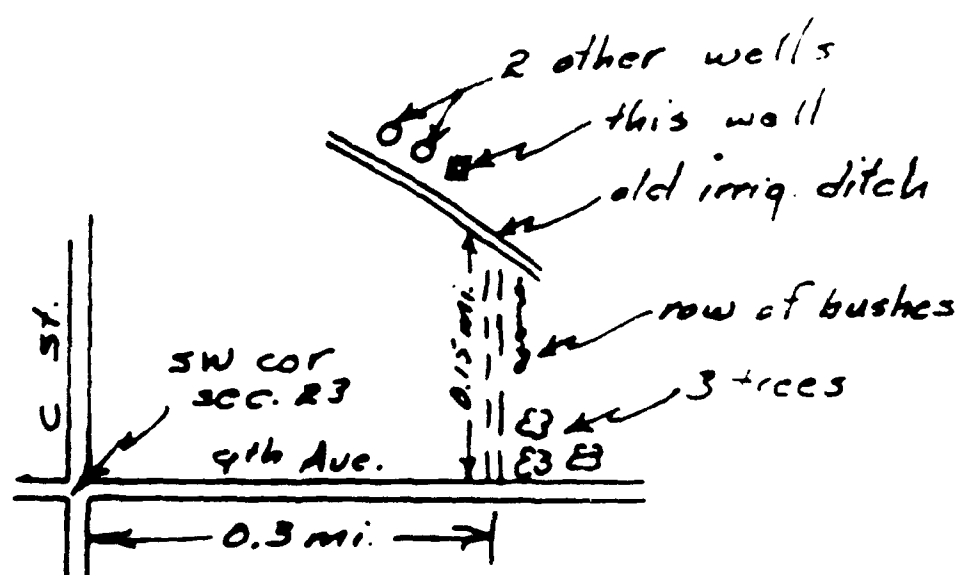
14. Remarks: (Log, Analysis, etc.) Well No. 1 in sec. 23. RR.

R.M.A. Map

9/
1
N



1
1
N



U.S. GEOLOGICAL SURVEY GROUND WATER BRANCH

WATER QUALITY DATA SHEET

DATE: 10-2-56
TOWNSHIP: 2 S 17 E 2 N
RANGE: 10 S 17 E 2 N

PROJECT NO. 7164-2104
QUAL. WATER

LOCATOR: R.O. Smith
STATE: Colo
COUNTY: Adams
SECTION: 24 2 367
ELEVATION: 2,930 ft. N; 2,420 ft. W. of SE corner of sec. 24

OWNER: Rocky Mtn Arsenal, Derby, Colo.
TERMINAL:

DRILLER:

ALTITUDE (ft.): 5160
TYPE OUG: DRILLED
DEPTH (ft.): 22
CASING DIAM (in): 8
DEPTH (ft.): 22
AQUIFER(S) AND DEPTHS: sand & gravel

WATER LEVEL: 11
PUMP TYPE: (Myers) cyl.
POWER KIND: gas engine

| ANIONS | CONCENTRATION (ppm) |
|------------------|---------------------|
| Ca | 185 |
| Mg | 60 |
| Na | 198 |
| K | 2.6 |
| CO ₃ | 0 |
| HCO ₃ | 302 |
| SO ₄ | 650 |
| Cl | 148 |
| NO ₃ | 8.4 |
| B | 33 |
| F | 8 |

REMARKS: C3-J1
 10-2-56

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES DIVISION

C2-67-24 ACCI

19

10-11 Nov

1. 1. 1. 1. 1.

Source of data: N. N. A. Const. 16.29 no. 7164 2104

A. L.

Admission *Free*, *Admission*

1. 10/1/2020

A. J. Freeman

plain

(R)

2510

150

1

1

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Albacils

10-24-44

(c)

Tenno

Summary

سید

11/11

RNA exp. № 7149-2144

9-128
(October 1955)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES DIVISION

WELL SCHEDULE

C2-67-246CC1

Date 9/2/55

10

Field No.

Recorded by Rex O. Smith

Office No.

Source of data RMA files & field obs

1. Location State Colorado County Adams
Map RMA wall loc. map no. 7164-2105
SW 1/4 NW 1/4 sec 24 T 2 R 67
2. Owner Rocky Mtn Arsenal Address Derby, Colo.
Tenant None Address
Driller Unknown Address
3. Topography nearly flat plain
4. Elevation ft. above below
5. Type Drilled, driven, bored, jetted 10
6. Depth: Rept. ft. Meas. 22 ft.
7. Casing: Diam. in. to in. Type
Depth ft. Finish
8. Chief Aquifer From ft. to ft.
Others
9. Water level 25.24 ft. 9/2/55 surface
24" plus over well which is 24" ft. below surface
10. Pump: Type None Capacity — G.M.
Power: Kind — Horsepower —
11. Yield: Flow — G.M. Pump — G.M. Meas. Rept. Est. —
Drawdown — ft. after — hours — G.M.
12. User Draw, Pump, P.R., R.R., Ind. — Domestic
Adequacy, permanence fair obs. well
13. Quality fair Taste, color, odor fair odor Sample 12
Tests for arsenic ammonia
14. Remarks (See previous, etc.) Well on 1 is sec. 24
known well loc. map

2 67
24 bddcc

DATE 9/2 55
BY R.O. Smith RMA files & field obs.
LOCALITY Colo. COUNTY Adams
SE. SE. NW 24 2 67
RMA well loc. map # 7164-2105
Rocky Mtn. Arsenal - Derby, Colo.
TOWN None
OWNER Unknown
ALTITUDE 5155 ft
6166.5
TYPE DUL DRILLED DRIVEN TESTED
DEPTH REPT 33.3

| | | |
|------|----|----|
| 2600 | FT | N |
| 3200 | FT | W |
| 5F | 54 | FT |

DATE 1510
TIME 74
ELEVATION 1060
HARDNESS 453
PERCENT 43 33

| CATIONS | | |
|---------|--|-----|
| SiO | | 26 |
| Fe | | |
| PO4 | | 0.1 |
| Ca | | 119 |
| Mg | | 38 |
| Na | | 160 |
| K | | 26 |
| CO | | 0 |
| HCO | | 287 |
| SO | | 430 |
| Cl | | 63 |
| NO | | 11 |
| H | | 59 |
| F | | 14 |

WATER LEVEL 22.0
Static 22.67
conc. esp. N side
PUMP TYPE
PUMPED RIND
CAPACITY
DRIVEN
OTHER

REMARKS 10-2-55
Dug 20 ft down. N side of hole. MR. DC

REMARKS 10-2-55

| | | | LOG (S) | |
|---------------------------------------------------------------------------------------------------------------|------------------------------------|------------------------|---------|--|
| 1 DATE | WELL NO | | | |
| 2 BY | CO | ACCT | | |
| 3 WELL DIM | DI | SPEC CAP | | |
| 4 DISCHARGE LEVEL ABOVE M.P. | | TEMP | | |
| PUMP TYPE | SIZE | MAKE | | |
| MOTOR NO | HP | MAKE | | |
| METER NO | V | AMPS | AM | |
| HEAD H ₂ O - FT | | TIME (H) | | |
| FOH | | FOH | | |
| FOH | | FOH | | |
| DIFFERENCE | | | | |
| 5 INPUT TO MOTOR GPH | | TIME | | |
| 6 KW | | 1.26 | | |
| 7 HP | | 1.34 | | |
| 8 HP | 1.03 | HP | 1.00 | |
| 9 OVER ALL EFF | HP ₂
HP ₁ | | | |
| PUMP EFF | HP ₂
HP ₁ | | | |
| 10 RPM PUMP | | DRIVER | | |
| 11 FUEL CONSUMPTION | GPH | GP TYPE
SEASON FULL | | |
| 12 OPERATION HRS | | OTHER
POWER | | |
| 13 ACRE FEET PUMPED | | | | |
| 14 REMARKS Well #4 in Sec 24 on Arsenal Well
loc. map
D/W on 11/30/55 - 22.09'
D/W on 4/2/56 - 21.40 | | | | |

9-108-July 1938
Revised

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES BRANCH

M. J. De
WM-55
MM-57

WELL SCHEDULE

CR-67-246dd1

Date 9/2/55, 19 Field No. _____

Record by IPex O. Smith Office No. _____

Source of data IPMA files & field obs

1. Location: State Colorado County Adams

Map IPMA well loc. map no. 7164-2105

SE 1/4 NW 1/4 sec. 24 T. 2 R. 67 W.

2. Owner: Rocky Mtn. Arsenal Address Perby, Colo.

Tenant None Address _____

Driller Unknown Address _____

3. Topography Nearly flat plain

4. Elevation 5166.8 above MSL (VMS-Alid) below

5. Type: Dug drilled, driven, bored, jettied _____ 19 _____

6. Depth: Rept. _____ ft. Meas. 33.3 ft.

7. Casing: Diam. 24 in., to _____ in., Type Cmc.

Depth 34 ft., Finish _____

8. Chief Aquifer _____ From _____ ft. to _____ ft.

Others _____

9. Water level 22.67 ft. rept. mean 9/2/55 above top of below

Cmc. 539 N side which is 0.7 ft. above below surface

10. Pump: Type None Capacity _____ G. M. _____

Power: Kind _____ Horsepower _____

11. Yield: Flow _____ G. M., Pump _____ G. M., Meas., Rept. Est. _____

Drawdown _____ ft. after _____ hours pumping _____ G. M.

12. Use: Dom., Stock, PS., RR., Ind., Irr. Obs. Unused

Adequacy, permanence good obs. well

13. Quality _____ Temp. _____ °F.

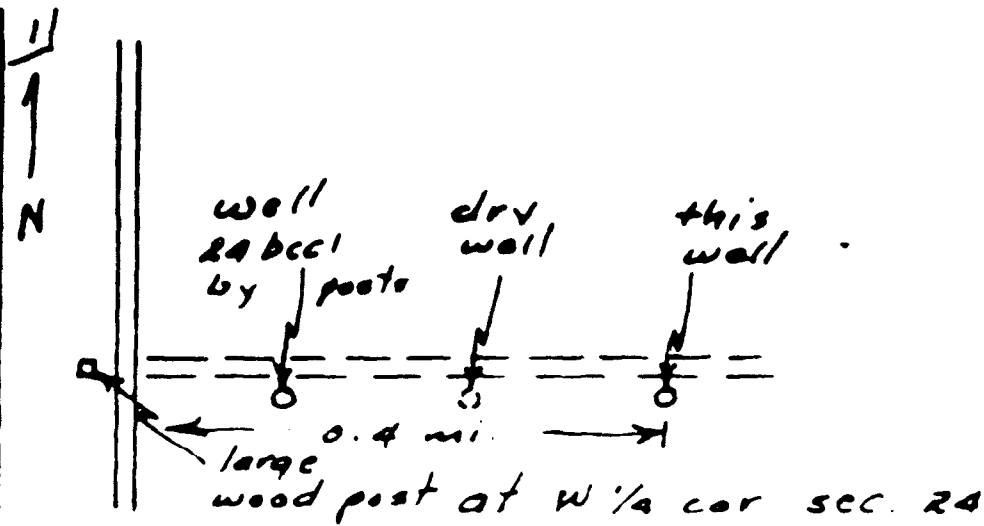
Taste, odor, color _____ Sample Yes USGS No

Unit for _____

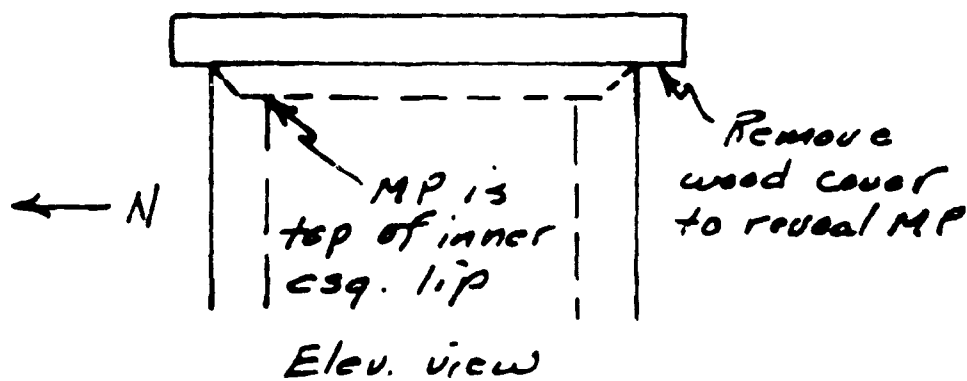
14. Remarks: (Log, Analysis, etc.) Well no. 4 in sec. 24

on Arsenal well loc. map

P/W - 11/6/57 - 20.18' below MP - PC



91



D/W on 11/30/55 — 2209'

D/W on 4/3/56 — 21.40

| a. | | b. | | c. | | d. | | e. | | f. | | g. | | h. | | i. | | j. | | k. | | l. | | m. | | n. | | o. | | p. | | q. | | r. | | s. | | t. | | u. | | v. | | w. | | x. | | y. | | z. | | aa. | | ab. | | ac. | | ad. | | ae. | | af. | | ag. | | ah. | | ai. | | aj. | | ak. | | al. | | am. | | an. | | ao. | | ap. | | aq. | | ar. | | as. | | at. | | au. | | av. | | aw. | | ax. | | ay. | | az. | | ba. | | bb. | | bc. | | bd. | | be. | | bf. | | bg. | | bh. | | bi. | | bj. | | bk. | | bl. | | bm. | | bn. | | bo. | | bp. | | bq. | | br. | | bs. | | bt. | | bu. | | bv. | | bw. | | bx. | | by. | | bz. | | ca. | | cb. | | cc. | | cd. | | ce. | | cf. | | cg. | | ch. | | ci. | | cj. | | ck. | | cl. | | cm. | | cn. | | co. | | cp. | | cq. | | cr. | | cs. | | ct. | | cu. | | cv. | | cw. | | cx. | | cy. | | cz. | | da. | | db. | | dc. | | dd. | | de. | | df. | | dg. | | dh. | | di. | | dj. | | dk. | | dl. | | dm. | | dn. | | do. | | dp. | | dq. | | dr. | | ds. | | dt. | | du. | | dv. | | dw. | | dx. | | dy. | | dz. | | ea. | | eb. | | ec. | | ed. | | ee. | | ef. | | eg. | | eh. | | ei. | | ej. | | ek. | | el. | | em. | | en. | | eo. | | ep. | | eq. | | er. | | es. | | et. | | eu. | | ev. | | ew. | | ex. | | ey. | | ez. | | fa. | | fb. | | fc. | | fd. | | fe. | | ff. | | fg. | | fh. | | fi. | | fj. | | fk. | | fl. | | fm. | | fn. | | fo. | | fp. | | fq. | | fr. | | fs. | | ft. | | fu. | | fv. | | fw. | | fx. | | fy. | | fz. | | ga. | | gb. | | gc. | | gd. | | ge. | | gf. | | gg. | | gh. | | gi. | | gj. | | gk. | | gl. | | gm. | | gn. | | go. | | gp. | | gq. | | gr. | | gs. | | gt. | | gu. | | gv. | | gw. | | gx. | | gy. | | gz. | | ha. | | hb. | | hc. | | hd. | | he. | | hf. | | hg. | | hh. | | hi. | | hj. | | hk. | | hl. | | hm. | | hn. | | ho. | | hp. | | hq. | | hr. | | hs. | | ht. | | hu. | | hv. | | hw. | | hx. | | hy. | | hz. | | ia. | | ib. | | ic. | | id. | | ie. | | if. | | ig. | | ih. | | ii. | | ij. | | ik. | | il. | | im. | | in. | | io. | | ip. | | iq. | | ir. | | is. | | it. | | iu. | | iv. | | iw. | | ix. | | iy. | | iz. | | ja. | | jb. | | jc. | | jd. | | je. | | jf. | | jg. | | jh. | | ji. | | jj. | | jk. | | jl. | | jm. | | jn. | | jo. | | jp. | | jq. | | jr. | | js. | | jt. | | ju. | | jv. | | jw. | | jx. | | jy. | | jz. | | ka. | | kb. | | kc. | | kd. | | ke. | | kf. | | kg. | | kh. | | ki. | | kj. | | kk. | | kl. | | km. | | kn. | | ko. | | kp. | | kq. | | kr. | | ks. | | kt. | | ku. | | kv. | | kw. | | kx. | | ky. | | kz. | | la. | | lb. | | lc. | | ld. | | le. | | lf. | | lg. | | lh. | | li. | | lj. | | lk. | | ll. | | lm. | | ln. | | lo. | | lp. | | lq. | | lr. | | ls. | | lt. | | lu. | | lv. | | lw. | | lx. | | ly. | | lz. | | ma. | | mb. | | mc. | | md. | | me. | | mf. | | mg. | | mh. | | mi. | | mj. | | mk. | | ml. | | mm. | | mn. | | mo. | | mp. | | mq. | | mr. | | ms. | | mt. | | mu. | | mv. | | mw. | | mx. | | my. | | mz. | | na. | | nb. | | nc. | | nd. | | ne. | | nf. | | ng. | | nh. | | ni. | | nj. | | nk. | | nl. | | nm. | | nn. | | no. | | np. | | nq. | | nr. | | ns. | | nt. | | nu. | | nv. | | nw. | | nx. | | ny. | | nz. | | oa. | | ob. | | oc. | | od. | | oe. | | of. | | og. | | oh. | | oi. | | oj. | | ok. | | ol. | | om. | | on. | | oo. | | op. | | oq | |
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| LOG (S) | |
|---------------------------------------|-------------------------------------|
| 1 DATE | WELL NO. |
| 2 BY | CU |
| 3 WELL DNM | NO |
| 4 DISCHARGE LEVEL ABOVE M.P. | TEMP |
| 5 PUMP TYPE | WAGE |
| 6 MOTOR NO. | WAGE |
| 7 METER NO. | AMPS |
| 8 INPUT TO MOTOR DISC REV | TIME |
| 9 HP ₁ | 1.55 |
| 10 HP ₂ | 1.15 |
| 11 HP ₃ | 1.55 |
| 12 OVER ALL EFF - $\frac{HP_2}{HP_1}$ | |
| 13 PUMP EFF - $\frac{HP_2}{HP_3}$ | |
| 14 RPM PUMP | DRIVER |
| 15 FUEL CONSUMPTION | G.P.H. |
| 16 OPERATION - HRS | OTHER POWER |
| 17 ACRE-Feet PUMPED | 1400 000 |
| 18 REMARKS | Well # 2 in sec. 26 on Arsenal Well |
| | loc. map # 7164-2105 |

9-183-July 1933
Revised

WV Keysoit
UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES BRANCH

WELL SCHEDULE

CE-67-26 bobi

Date *8/31/55*

10

FIELD

Record by *Rex O. Smith*

Office No.

Source of data *RMA files & pers. obs*

1. Location State *Colorado* County *Adams*
Map *RMA well loc map no. 7164 2105*
NE 1/4 NW 1/4 sec. 26 T. 2 S. R. 67
2. Owner *Rocky Mtn. Arsenal* Address *Derby, Colo.*
Tenant *None* Address _____
Driller *Unknown* Address _____
3. Topography *very gently rolling plain*
4. Elevation _____ ft. above _____ below
5. Type ☒ Dug ☐ drilled, driven, bored, jetted — 19 —
6. Depth Rept _____ ft. Meas *39.4* ft
7. Casing Diam *28* in. to _____ in. Type *brick*
Depth — ft. Finish _____
8. Chief Aquifer _____ From _____ ft. to _____ ft.
(Others _____)
9. Water level *39.10* ft. rept. *8/31/55* *top of*
board well casing W. side which is *0.6* ft. *above* surface
below
10. Pump Type *None* Capacity _____ G. M. _____
Power: Kind _____ Horsepower _____
11. Yield: Flow _____ G. M. Pump _____ G. M. Meas. Rept. Est. _____
Drawdown — ft. after _____ hours pumping _____ G. M.
12. Use: Dom., Stock, PS, RR, Ind., Irr. ☒ *UNUSED*
Adequacy, permanence *poor obs. well*
13. Quality *poor, stagnant* Temp. _____ °F.
Taste, odor, color *foul odor* Sample Yes _____ No _____
Use for *human consumption*
14. Remarks: (Log, Analysis, etc.) *Well no. 2 in sec. 26 on*
Arsenal well loc. map no. 7164-2105

2 67
27 66a Ca

9/6/55

ROS LAH

RMA files 1 fion obs

Quel water

875

Colo.

County Adams

7.0

NE NW NW 27 2 67

520

RMA map # 7164-2105 4900 ft; 4400 W of SE corner 27

271

Ruby Mtn Arsenal in Derby Colo.

31

15

None

3.20

Topo

| | | | | |
|--|--|--|--|--|
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

45

35.7

LS

7.10

Iron

AQUICLIMATE AND DEPTHS

Static

35.67

9/6/55

Top of

iron csg. N side

7.0

None

| | | ppm | ppm |
|---------|------------------|-----|-----|
| CATIONS | SiO ₂ | | |
| | Fe | | |
| | Ca | 79 | |
| | Mg | 18 | |
| ANIONS | Na | 68 | |
| | K | 4 | |
| | CO ₃ | 0 | |
| | HCO ₃ | 112 | |
| | SO ₄ | 340 | |
| | Cl | 195 | |
| | NO ₃ | 13 | |
| | H | .01 | |
| | F | 6 | |
| | | | |

Unused, formerly domestic

C3-31

11-9-54

| LOG | |
|------------------------------|-------------------------|
| 1 DATE | WELL NO. |
| 2 BY | ACCY |
| 3 WELL NAME | SPC CAP |
| 4 DISCHARGE LEVEL ABOVE M.P. | TEMP |
| 5 PUMP TYPE | MAKE |
| 6 MOTOR NO. | MAKE |
| 7 MOTOR HP | HP |
| 8 INPUT TO MOTOR DISC REV. | TIME |
| 9 REV. | 100 |
| 10 HP | 110 |
| 11 HP | 120 |
| 12 OVER ALL EFF. | HP |
| 13 PUMP EFF. | HP |
| 14 GPM PUMP | DRIVEN |
| 15 FUEL CONSUMPTION | G.P.H. TYPE SEASON FUEL |
| 16 G.P.H. PUMPED | OTHER |
| REMARKS | |

Well #2 in Sec 27 on Arsenal well loc. map. Almost dry

9-125-July 1968
Revised

on Keyser
UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES BRANCH

WELL SCHEDULE

C2-67-2766a1

Date 2/6/55, 19... Field No.
Record by R. A. S. & A. M. Office No.
Source of data R. M. A. since 5 Sept. 1954.

1. Location: State California County Adams
Map R. M. A. Map No. 7164-2105
NW 1/4 NW 1/4 sec. 27 T. 22 N. R. 67
2. Owner: Rocky Mtn. Arsenal Address Deer, Cal.
Tenant None Address
Driller W. A. R. W. R. Address
3. Topography Nearly flat plain
4. Elevation ft. above
below
5. Type: Drill driven, bored, jetted 19
6. Depth: Rept. 45 ft. Meas. 35.7 ft.
7. Casing: Diam. 7 1/2 in., to in., Type Steel
Depth ft., Finish
8. Chief Aquifer From ft. to ft.
Others
9. Water level 35.67 ft. rept. 2/6 1955 above top of
ice 50 ft. N. side which is 7.0 ft. above surface
10. Pump: Type None Capacity G. M.
Power: Kind Horsepower
11. Yield: Flow G. M., Pump G. M., Meas., Rept. Est.
Drawdown ft. after hours pumping G. M.
12. Use: Dom., Stock, PS., RR., Ind., Irr. Obs. ~~Used~~
Adequacy, permanence
13. Quality Temp °F.
Taste, odor, color Sample Yes
No
Used for
14. Remarks: (Log, Analysis, etc.) Well No. 2 in Sec. 27. AR
Arsenal well-log. M. R. P.

67
27 ddd

8/24/55

ROSIAMH

RMA files & field obs.

Colo

Adams

SE SE SE 27 2 67

RMA del. map 7/64-2105 & Aerial photo.

Ruby Man. Arsenal Derby, Colo.

None

Unknown

5190.4

Alid
VMBP RMA

About 250' W
SE of SE
of SE 27

58

57.8

3/2 50

iron

Static S.E.

51.36

9/6/55

top of

tin at top of conc. site

0.5

None

Quar. cluster

576

87

261

32

76

9

Beta Gamma

DO

SO

Ca

total No

Ca

M

Na

K

CO

HCO

SO

Cl

NO

H

F

8.5

2

78

6

0

151

60

73

16

.08

1.4

unused, formerly dom.

10-1-55

| | | | |
|---------------------|---------------------|---------------------|---------------------------------|
| 1. DATE | 2. BY | 3. WELL DISCH | 4. DIS. MARGE. LEV. 150' 1/2 MP |
| 5. PUMP TYPE | 6. MOTOR NO | 7. METER NO | 8. INP. T. 1.5 MIN. 1/2 |
| 9. KW | 10. HP | 11. HP | 12. OVER ALL EFF |
| 13. PUMP EFF | 14. PPM PUMP | 15. CONSUMPTION | 16. OPERATE N. 1/2 |
| 17. 100' TEST PUMPS | 18. 100' TEST PUMPS | 19. 100' TEST PUMPS | 20. 100' TEST PUMPS |

Remains Well # 5 in Sec 27 on Arsenal Well
loc. map

9-225-July 1968
Revised

ON Kayser
UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES BRANCH

WELL SCHEDULE

C2-67-27ddd1

Date 8/24/55, 19____ Field No. _____

Record by RDS & LAM Office No. _____

Source of data RMA file 2 & field obs.

1) Location: State Colorado County Adams
Map RMA well loc. map no. 7164-2MS & aerial photos
SE 1/4 SE 1/4 sec. 27 T. 2 R. 67 N.

2. Owner: Rocky Mountain Iron Derby, Colo

Tenant Name Address _____

Driller Unknown Address _____

3. Topography mostly rolling plain

4. Elevation _____ ft. above _____ below

5. Type: Dug drilled driven, bored, jetted _____

6. Depth: Rept. 27 ft. Meas. 27.2 ft.

7. Casing: Diam. 3 1/2 in. to _____ in. Type iron

Depth _____ ft. Finish _____

8. Chief Aquifer _____ From _____ ft. to _____

Others _____

9) Water level 51.36 ft. 9/6/1955 above top of fin at top of case sidewich is 0.5 ft. below surface

10. Pump: Type None Capacity _____ G. M. _____

Power: Kind _____ Horsepower _____

11. Yield: Flow _____ G. M., Pump _____ G. M., Meas., Rept. Est. _____

Drawdown _____ ft. after _____ hours pumping _____ G. M.

12. Use: Dom., Stock, FS, RR., Ind., Irr. Unused

Adequacy, permanence good obs. well

13. Quality _____ Temp _____ °F.

Taste, odor, color _____ Sample Yes _____ No _____

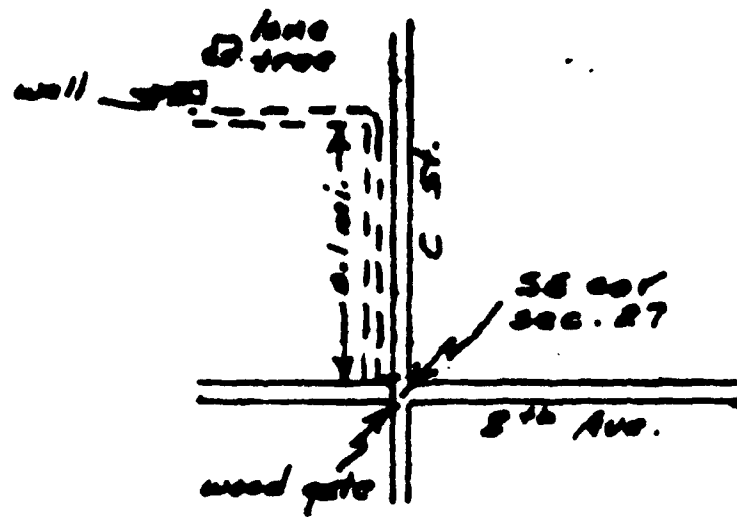
Unit for _____

14. Remarks: (Log, Analysis, etc.) Well no. 5 in sec. 27

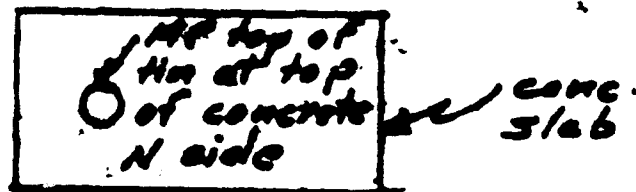
on Ardena well loc. map

About 200' W of SE cor. sec. 27

11
1
N



9
1
N



Plan view

OFFICE OF THE
SHERIFF
COUNTY OF LOS ANGELES
CALIFORNIA

9-122-July 1966
Revised

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES BRANCH

WELL SCHEDULE

C2-67-28dab1

Date 9/6/65 , 19 65 Field No.
Record by R. O. S. & L. A. N. Office No.
Source of data R. M. A. files + pers. obs.

1. Location: State Colorado County Adams
Map R. M. A. Map No. 7164-2105

N. 1/2 SE 1/4 Sec. 28 T. 2 N. R. 67

2. Owner Baby M. Arneson Address Derby, Colo.

Tenant None Address

Driller U. M. A. M. A. Address

3. Topography nearly flat plain

4. Elevation 5140 ft. above N.P.
below

5. Type Dr drilled, driven, bored, jetted 10

6. Depth: Rept. 48 ft. Meas. 53.2 ft.

7. Casing: Diam. 4 1/2 in. to 10 in. Type Cas

Depth ft. Finish Blk. Iron

8. Chief Aquifer From ft. to ft.

Others

9. Water level 42.20 ft. 2/6 1965 above top of concrete casg.
which is ft. above surface

10. Pump: Type None Capacity G. M.

Power: Kind Horsepower

11. Yield: Flow G. M., Pump G. M., Meas. Rec. Est.

Drawdown ft. after hours pumping G. M.

12. Use: Dom., Stock, P.B., R.R., Ind., Irr. Unsed

Adequacy, permanence

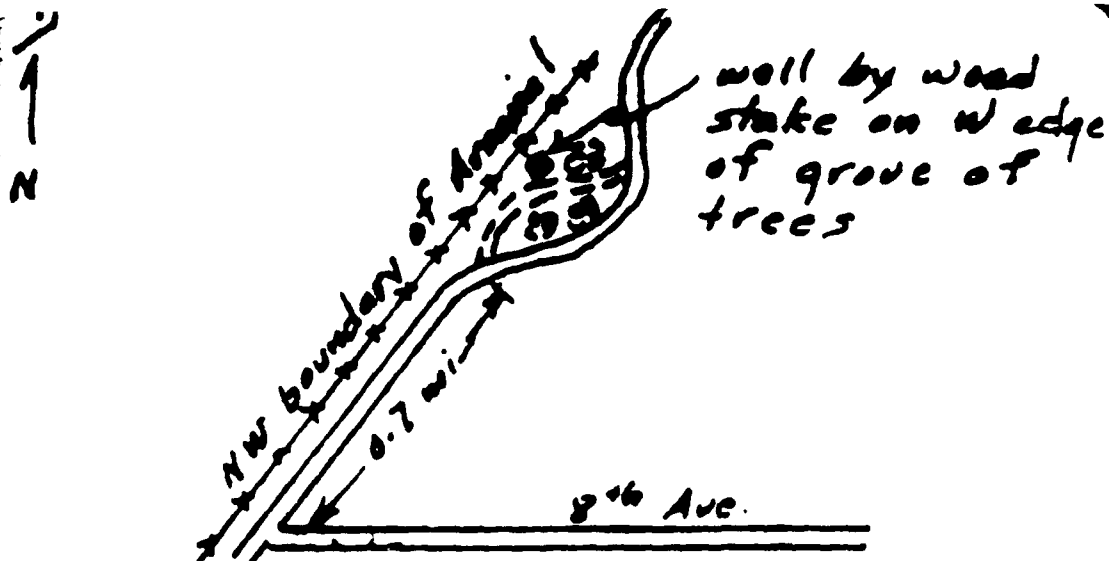
13. Quality Temp °F.

Taste, odor, color Sample Yes No

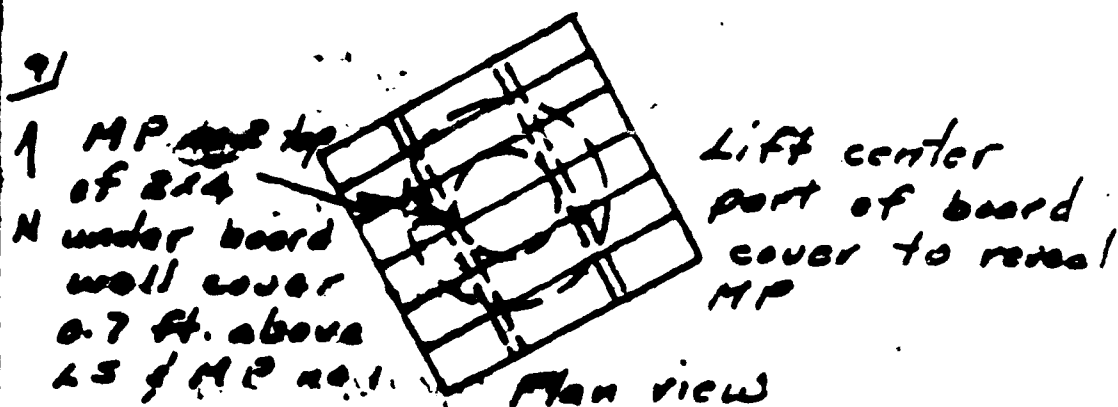
Unit for

14. Remarks: (Log, Analysis, etc.) Well No. 1 in Sec. 28

on Arneson Map.



7/ 44" 20 cas. to 84.3 ft.; 18" iron cas. to 53.2 ft.



2 5 67
33bcbcb

10-4-55

ROS Petre LAM - RMA Lines & Resources

LOCATION STATE Colo COUNTY Adams

NW 1/4 SW 1/4 NW 1/4 33 1/2 5 67 1/2
RMA well location map No. 7164-2125

OWNER RMA

TENANT

DRILLER Unknown

MEASURED ON 5151.0

DET BY RMA (UMB)

4 TYPE ONE DRILLED DRIVER SET

5 DEPTH IN FT 50

IT HEAD 47.6

6 CASING DIA 6 1/4 IN TO

IN TYPE iron

DEPTH

7 EQUIPMENT AND DEPTHS

static 4.5
44.95

CS9 E side

0.5

2 PUMP TYPE Alone

POWER 4 HP

10 YIELD 1.10

LPM PUMP

GPM HEAD DEPT EST

DRILLER

IT AFTER

HOL PUMPING

LPM HEAD DEPT

11 SPEC LAP

TRUSS

IT PERM

TRUSS LAP

12

(FIELD) LOG

POD

OTHER

13 USE DOW STOCK PS 44 NO NO 44452

14 SAMPLE 100 C & TEMP

15 REMARKS

16 REMARKS 7000 CON IN 1000 FT. Det 42 23 min water below 1000

| | | | | | |
|----|-----|-----|-----|----|-----|
| 64 | 68 | 384 | 156 | 45 | 2.1 |
| SO | Fe | | | | |
| Ca | Mg | 57 | | | |
| Na | K | 60 | | | |
| CO | HCO | | | | |
| SO | CI | 170 | | | |
| NO | | 64 | | | |
| B | | 3 | | | |
| F | | .01 | | | |

LABORATORY TESTS
17 USE DOW STOCK PS 44 NO NO 44452
18 SAMPLE 100 C & TEMP
19 REMARKS
20 REMARKS 7000 CON IN 1000 FT. Det 42 23 min water below 1000

LOG 15

1 DATE

WELL NO

2 BY

CO

ACCT

3 WELL DEPTH

DI

SPEC CAP

4 DISCHARGE LEVEL ABOVE M.P.

TEMP

5 PUMP TYPE

SIZE

MAKE

6 MOTOR NO

HP

MAKE

7 METER NO

1

LOOPS

RA

8 READINGS ON

TIME T

A

T

B

T

9 DIFFERENCE

10 INPUT TO MOTOR DISC. HP

TIME

11 KWH

1.50

12 HP

1.50

13 HP

1.50

HP

1.50

14 OVER ALL EFF

HP

1.50

15 PUMP EFF

HP

1.50

16 GPM PUMP

DRIVER

17 FUEL CONSUMPTION

GPH

G.P.

TYPE

18 OPERATION NOS

OTHER

POWER

19 ACRES-FEET PUMPED

1

1.50

20 REMARKS: Well #8 in SAC 33 on Arsenal Map

9-188-July 1936
Revised

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES BRANCH

MAP 53
MM-57

WELL SCHEDULE

C2-67-33bch

Date 2/25/55, 19 55 Field No.
Record by R.S. & L.H. Office No.
Source of data R.M.A. files & Pers. Obs.

1. Location: State Colorado County Adams
Map P.M.A. well loc. map No. 7164-2105

SW X NW X sec. 33 T. R N R 67 E. W

2. Owner Rcky Mtn. Arsenal Address Deer, Colo.

Tenant None Address

Driller K.K.N. & Co. Address

3. Topography gently rolling plain

4. Elevation 5151.0 ft. below M.S.L. (V.M.S. A.D.)

5. Type: Dug drilled driven, bored, jetted 10

6. Depth: Rept. 50 ft. Meas. 47.6 ft.

7. Casing: Diam. 6 1/2 in., to in., Type iron

Depth ft., Finish

8. Chief Aquifer From ft. to ft.

Others

9. Water level 44.95 ft. rept. 9/6 19 55 above top of

iron cas. E side which is 0.5 ft. below surface

10. Pump: Type None Capacity G. M.

Power: Kind Horsepower

11. Yield: Flow G. M., Pump G. M., Meas. Rept. Est.

Drawdown ft. after hours pumping G. M.

12. Use: Dom., Stock, PS., RR., Ind., Irr. Obs Unused

Adequacy, permanence

13. Quality Temp °F.

Taste, odor, color Sample Yes

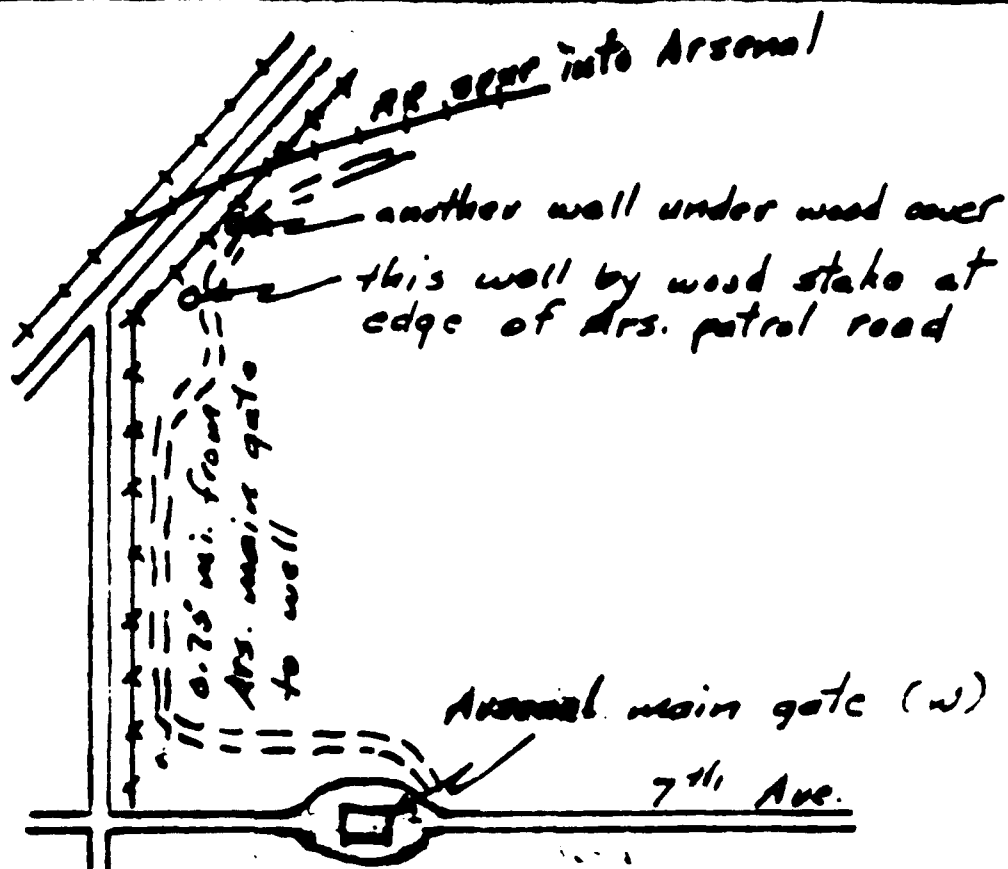
Unit for No

14. Remarks: (Log, Analysis, etc.) Well No. 8 in Sec. 33 on

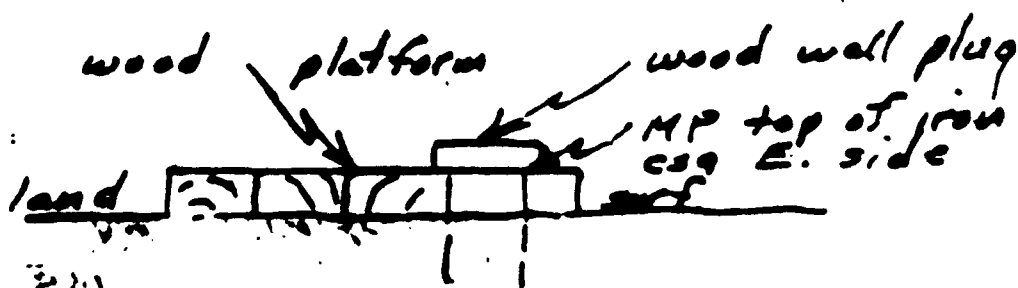
Arsenal Map

E/W - 11/6/57 - 48.23' below I.P. - DC

11
1
N



91



W on 12/1/55 - 44.91
W on 4/3/56 - 44.75

2 67 0
35 6000

8/24/ 55

LAN & ROS - RMA Fins & Pmc obs
Colorado Adams

NW NW 35 2 67 0
RMA well loc. map & aerial photos of Adams Co
Rocky Mtn. Arsenal Derby, Colo.

None

UNKNOWN

526.8

35

40.3

30" ID.

8?

| | | |
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| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

Approx 1200' W
RMA's of NW
Co. Sec 35

STANDARD DEPTHS

Static 36.57

9/4/55 top of

well cover plank N. edge

1.3

None

Unused

SiO
Fe
Ca
Mg
K
CO
HCO
SO
Cl
NO
R

LOG (S)

| 1 DATE | WELL NO | CO | ACCT |
|------------------------------|---------|-----------|-------------|
| 1 OF L INCH | DR | DR | DR |
| 1 DISCHARGE LEVEL ABOVE M.P. | | | TEMP |
| PUMP TYPE | 11 | WAGE | |
| 1 MOTOR NO | 11 | WAGE | |
| METER NO | | AMPS | 66 |
| READING NO | | 11 | |
| REFERENCE | | | |
| 1 INPUT TO MOTOR DISC. REV | | | |
| 1 KW | | | |
| 1 HP | | | |
| 1 HP | | | |
| 1 OVER ALL EFF | HP | | |
| PUMP EFF | HP | | |
| WPM PUMP | | DRIVEN | |
| FUEL CONSUMPTION | GPH | G.P. TYPE | SEASON FUEL |
| 1 OPERATION HRS | | OTHER | POWER |
| 1410 FEET PUMPED | | | |

REMARKS For OBS. well. 11/13/55 - 36 96 wend-y
 11/21/56 - 87-89 11/6/67
 Well #2 in Sec 35 on PMA loc. near.
 Be sure to get tape into 8" csg. at bottom
 of 30" large well when meas'g
 1/ 80' 30 brick csg. to 35', then about an 8"
 iron csg. to 40'

9-186-July 1935
Revised

CH. K. YSCIT
UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES BRANCH

MM-65
MM-67

WELL SCHEDULE

C2-67-35 bbd1

Date 8/24/55

19

Field No.

Record by L.A.H. & R.O.S.

Office No.

Source of data RMA files & pers. obs.

1 Location: State Colorado County Adams
Map RMA well loc. map & aerial photos of Adams Co.

NW 1/4 NW 1/4 sec. 35 T. 2 S. R. 67

2 Owner Rocky Mtn. Arsenal Address Derby, Colo

Tenant None Address

Driller Unknown Address

3 Topography very gently rolling plain

4 Elevation ft. above below

5 Type Dug/drilled, driven, bored, jetted 19

6 Depth: Rept. 30 ft. Meas. 40.3 ft.

7 Casing: Diam. 30 in. to 2 in. Type cast

Depth ft. Finish

8 Chief aquifer From ft. to

Others

9 Water level 36.57 ft. Rept. 7/6/1955

well course pink & red of which 1.3 ft. below surface

10 Pump: Type None Capacity G. M.

Power: Kind Horsepower

11 Yield: Flow G. M., Pump G. M., Meas. Rept. Est.

Draw down ft. after hours pumping G. M.

12 Use: Dom., Stock, PS RR., Ind., Irr Obs. unused

Adequacy, permanence fair obs. well

13 Quality Temp °F.

Taste, odor, color Sample Yes No

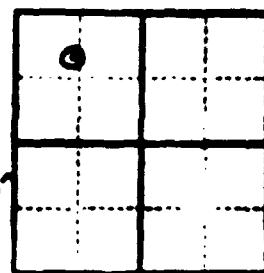
Unfit for

14 Remarks: (Log, Analysis, etc.) Well no 2 in sec. 35 on

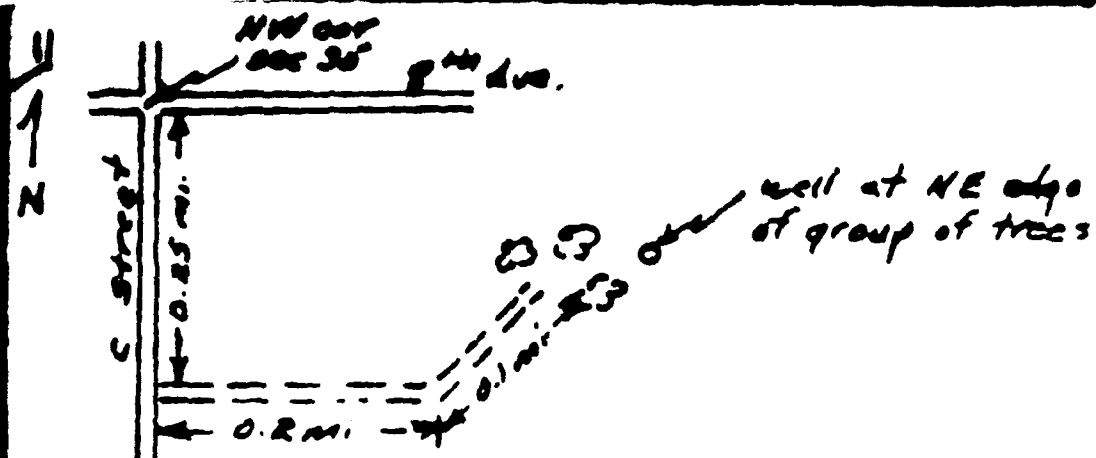
Arsenal well loc map. Be with

great importance & 4.9 ft. below

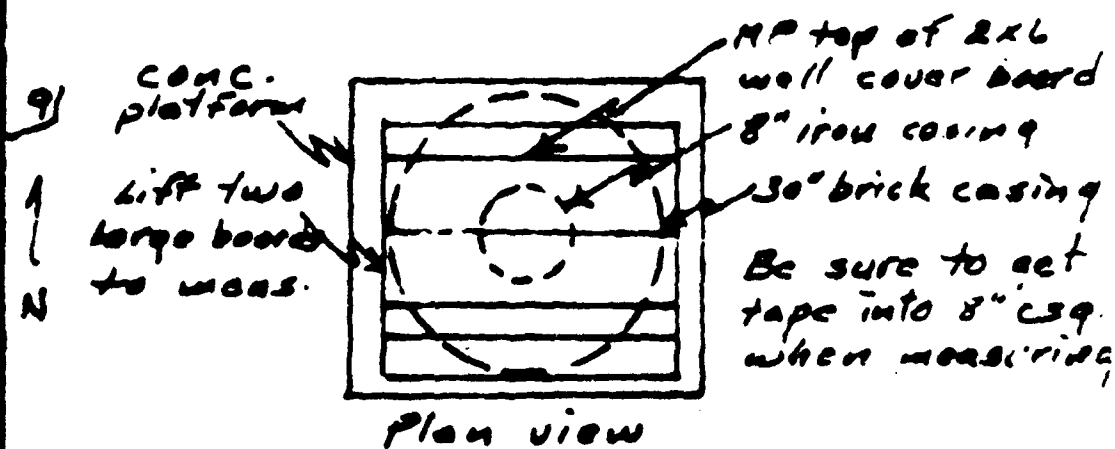
of 1.3 ft. below surface



About 1500' E of 900' S of
Well loc. sec. 35



7/ 30" ID brick csq to 35 ft., then about
on 8" iron csq. to 40 ft.



D/W on 11/30/55 — 36.96

D/W on 4/3/56 — 37.88

well dry 11/6/57

2 3 67

35 67

100-55

Petri

LOCATION STATE Colo Adams

NE SW NW 35 2 T. 67

3,450 ft N, 3,400 ft W of SE cor sec 35

OWNER RMA

TENANT

OWNER

LATITUDE 3220

TYPE DUG OR DRIVEN WELL

DEPTH

CASING 3 1/2

DEPTH

AQUIFERS AND DEPTHS

WATER LEVEL 88.78

PUMP TYPE HAND

POWER

TO YIELD

YIELD

YIELD

YIELD

YIELD

YIELD

YIELD

YIELD

YIELD

YIELD

YIELD

YIELD

YIELD

YIELD

YIELD

YIELD

U.S. GEOLOGICAL SURVEY GROUND WATER BRANCH

TOWNSHIP

RANGE

Qual water

1560

7.7

962

88

86

12

Reid Gamma

U 10

| | | | | |
|--|--|--|--|--|
| | | | | |
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| | | | | |
| | | | | |

ABOUT 250' N.E.
2nd E. 1st N.E.
CON SEC 35

| | |
|------------------|-----|
| SO. | 51 |
| Fe | |
| PO ₄ | .1 |
| Ca | 27 |
| Mg | 74 |
| Na | 280 |
| K | 1.8 |
| CO | 0 |
| HCO ₃ | 115 |
| SO ₄ | 475 |
| Cl | 69 |
| NO ₃ | .11 |
| B | .2 |
| F | .4 |

9-6 10.55 BELOW T.C.E.

0.4 ABOVE SURFACE

CAPACITY

DRIVEN

CPM PUMP

CPM MEAS DEPT 1ST

CPM MEAS DEPT 2ND

CPM MEAS DEPT 3RD

CPM MEAS DEPT 4TH

CPM MEAS DEPT 5TH

CPM MEAS DEPT 6TH

CPM MEAS DEPT 7TH

CPM MEAS DEPT 8TH

CPM MEAS DEPT 9TH

CPM MEAS DEPT 10TH

CPM MEAS DEPT 11TH

CPM MEAS DEPT 12TH

CPM MEAS DEPT 13TH

CPM MEAS DEPT 14TH

CPM MEAS DEPT 15TH

UNUSED - good for obs

ERROR

REMARKS

NOTES

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011 Keyser

9.183
(October 1950)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES DIVISION

WELL SCHEDULE

CR-67-35bca1

Date 8/20/55

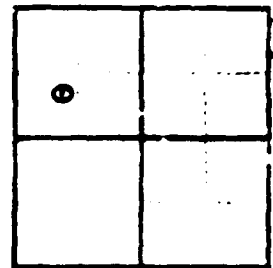
Field No.

Record by LAM & ROS

Office No.

Source of data RMA files & field obs.

1. Location State Colorado County Adams
Map RMA well loc. map no. 7164-2105 & aerial photos
SW 1/4 NW 1/4 sec 35 T 2 R 67
2. Rocky Mtn Arsenal Address Derby, Colo.
Tenant None Address —
Driller Unknown Address —
3. Topography gently rolling plain
4. Elevation — ft. above
— ft. below
5. Type Aug. drilled driven, bored, jetted 19
6. Depth 124 ft. Meas 126.8 ft.
7. Casing Diam 3 1/2 in., to in., Type SI
Depth — ft., Finish —
8. Chief Aquifer — From — ft. to —
Others —
9. Water level 88.78 ft. rept 9/6/1955 above top of
100 ft. cap. E side below surface
which is 0.4 ft. below
10. Pump: Type None Capacity — G. M. —
Power: Kind — Horsepower —
11. Yield: Plus — G. M. Pump — G. M. Motor and Fan —
Drawdown — ft. after — G. M.
12. Use: Dom. Stock, C. S. RR, Ind. Unusual
Adequacy, permanence good obs well
13. Quality Temp — °F.
Taste, odor, color Sample Yes
No
Unfit for
14. Remarks: Lab. Analyses, etc. Well no. 1 in sec. 35 on
Arsenal well loc. map



APPENDIX D
REPORT OF PLUGGING OPERATIONS
OF DEEP WELLS ON THE
ROCKY MOUNTAIN ARSENAL

REPORT OF PLUGGING OPERATIONS OF DEEP WELLS
ON THE ROCKY MOUNTAIN ARSENAL

In the area of the contaminated surface aquifer, numerous deep wells extend into the Laramie formation. These farm wells existed prior to the aquisition of the land by the Government for the purpose of construction of the Rocky Mountain Arsenal. All of the wells were tapping bedrock water.

The possibility exists that contaminated water from the surface aquifer could be transmitted to the bedrock aquifer by piping down along the casing in the deep wells. To eliminate the possibility of contaminating the bedrock aquifer, the Corps of Engineers, U. S. Army, Omaha District, recommended to the Rocky Mountain Arsenal that the deep wells be plugged.

Upon concurrence by the Rocky Mountain Arsenal, the Corps of Engineers began the well plugging program in April, 1962. Since the South Platte River is the major controlling drainage feature in the area, the elevation of the maximum scour of the river, elevation 4850, was chosen as the maximum depth of the bottom seal-off plug in the wells.

Method of Plugging:

A Failing 1500 drill was used as a workover rig to clean the wells of debris. The majority of the wells were either bridged off by caving or by foreign material dropped into the wells. The wells were cleaned by using roller rock bits and a bentonitic drilling mud.

After the wells were cleaned, the casing was parted at the seal-off interval by detonating two 1 $\frac{1}{4}$ " sticks of 60% high velocity gelatin dynamite. Upon computation of the amount of neat cement grout put into the well after the blast, the parting of the well casing ^{was} more than effectively achieved in all cases.

Following the parting of the casing, 2" galvanized pipe was put in the well and neat cement grout was pumped into the seal-off zone. The neat cement grout consisted of a slurry of portland cement weighing approximately fifteen pounds per gallon. The casing was parted and cemented off at three intervals in each well.

Individual Well Records:

Section 22, T2S, R67W

Well #A-1 (Well #3 on reference map)

Elev. 5140 BR Elev. 5108

Well #A-1 (Cont'd)

500' deep?

Well casing - 4" dia. iron

1 $\frac{1}{4}$ " pipe set in well with hand pump at surface.

Well housed in 4' x 4' x 6' concrete pit.

Well plugging record:

Pulled 1 $\frac{1}{4}$ " pipe and pump.

Washed hole clean to 292'.

Blasted casing at 280' depth.

Pumped 115 gal. neat cement grout in hole.

Blasted casing at 100' depth.

Pumped 95 gal. neat cement grout in hole.

Blasted casing at 37' depth.

Tremied 70 gal. neat cement grout in hole.

Top of hardened cement in hole at 15' depth.

Well #A-49a (Well #2 on reference map)

Elev. 5170 BR Elev. 5120

524' deep?

Well casing - 3' dia. concrete

1 $\frac{1}{4}$ " pipe in well with hand pump at surface.

Well plugging record:

Pulled 1 $\frac{1}{4}$ " pipe and hand pump from well.

Probed and washed with rock bit and N rods.

Found no indication of drilled well deeper than
probed depth of 34'. Large diameter casing
indicates this is a shallow well. Depth
of 524' in records must be in error.

Did not fill well, replaced well cover.

Well #A-49b (Well #1 on reference map)

Elev. 5130 BR Elev. 5100

500' deep?

Well casing - 6" dia. iron

Well housed in 4' x 4' x 6' concrete pit.

Well #A-49b (Cont'd)

Well plugging record:

Cleaned debris from pit.
Washed hole clean to 290' depth.
Blasted casing at 280' depth.
Pumped 115 gal. neat cement grout in hole.
Blasted casing at 123' depth.
Pumped 155 gal. neat cement grout in hole.
Blasted casing at 40' depth.
Tremied 120 gal. neat cement grout in hole.
Hard cement in pit, hole completely filled.

Section 23, T2S, R67W

Well #A-2 (Well #4 on reference map)

460' deep?

Unable to locate well. Arsenal records indicate well was razed and filled.

Well #A-3b (Well #5 on reference map)

Elev. 5150 BR Elev. 5130

520' deep?

Well casing - 4" dia. iron

Windmill in state of disrepair over well.

Hand pump set on casing at ground surface.

Well plugging record:

Dismantled windmill, pulled 1½" pipe and hand pump from well.
Washed hole clean to 300' depth.
Blasted casing at 300' depth.
Pumped 200 gal. neat cement grout in hole.
Blasted casing at 160' depth.
Pumped 100 gal. neat cement grout in hole.
Blasted casing at 70' depth.
Pumped 110 gal. neat cement grout in hole.
Blasted casing at 30' depth.
Tremied 75 gal. neat cement grout in hole.
Top of hardened cement in hole at 3' depth.

Well #A-4 (Well #6 on reference map)

480' deep?

Dug and probed area trying to locate well. Unable to locate it. Former resident stated the well had been razed and filled by the Rocky Mountain Arsenal.

Section 24, T2S, R67W

Well #D-1d (Well #6 on reference map)

Elev. 5165 BR Elev. 5135

450' deep?

Well casing - 30' dia. galvanized

Well plugging record:

Probed and washed hole with rock bit and N rods.

Unable to find evidence that the well was drilled deeper than 50'. Large diameter casing supports this evidence. Records of deeper depth must be in error.

Did not fill well, replaced well cover.

Well #D-10 (Well #1 on reference map)

Elev. 5180 BR Elev. 5150

No data on total depth.

Well casing - 6-3/4" dia. galvanized

Well plugging record:

Attempted to clean hole with N rod and rock bit.

Hole appeared to be filled with debris.

Twisted rock bit off in hole at 35.6' depth.

Blasted casing at 35' depth.

Tremied 100 gal. neat cement grout in hole.

Hard cement standing in hole at 5.5' depth.

Section 26, T2S, R67W

Well #A-59b (Well #2 on reference map)

Elev. 5190 BR Elev. 5142

Well #A-59b (Cont'd)

700' deep?

Well casing - 30" dia. brick

Well plugging record:

Probed and washed well but unable to find evidence that well was drilled deeper than 30'. Large diameter brick casing indicates well was hand dug and the 700' depth shown in the records is erroneous.

Did not fill well, replaced well cover.

Well #A-87 (Well #1 on reference map)

Elev. 5180 BR Elev. 5155

27' deep?

Hand dug down 6' but unable to locate well casing. Field evidence indicates this well to be of greater drilled depth than 27'. The records of Well #A-59b could be the records of this well. Rocky Mountain Arsenal records show this well to be razed and filled.

Backfilled hand dug location hole.

Section 27, T2S, R67W

Well #A-55b (Well #2 on reference map)

Elev. 5120 BR Elev. 5070

No data on total depth.

Well casing - 7-1/8" dia. galvanized.

Well housed in 6' x 6' x 7.5' concrete pit.

Well plugging record:

Filled well pit with dirt.

Cleaned and washed hole to 58' depth, encountered hard obstruction. Put drive sampler on bottom of N rods and drove sampler from 58' to 59' using 70 blows.

Recovered bedrock from drive sampler.

Blasted casing at 53' depth.

Well #A-55b (Cont'd)

Tremied 55 gal. neat cement grout in hole.
Blasted casing at 33' depth.
Tremied 50 gal. neat cement grout in hole.
Hand cement in hole at 15' depth.

Well #A-58 (Well #1 on reference map)

Elev. 5125 BR Elev. 5075

620' deep?

Well casing - 5" dia. iron

Well housed in 4' x 6' x 6" concrete pit.

Well plugging record:

Cleaned and washed hole to 280' depth.
Blasted casing at 280' depth.
Pumped 500 gal. neat cement grout in hole.
Blasted casing at 160' depth.
Pumped 300 gal. neat cement grout in hole.
Blasted casing at 58' depth.
Pumped 110 gal. neat cement grout in hole.
Hard cement in hole at 16' depth.

Section 35, T2S, R67W

Well #A-91 (Well #1 on reference map)

Elev. 5205 BR Elev. 5175

124' deep

Well casing - 4" dia. iron

Casing located at ground surface.

Well plugging record:

Cleaned hole to 128' depth.
Blasted casing at 100' depth.
Tremied 80 gal. neat cement grout in hole.
Blasted casing at 37' depth.
Tremied 60 gal. neat cement grout in hole.
Hard cement in hole at 8' depth.

Well #A-92 (Well #4 on reference map)

Elev. 5245 BR Elev. 5217

Well #A-92 (Cont'd)

650' deep?

Well casing - $5\frac{1}{2}$ " dia. iron

Well housed in $4\frac{1}{2}$ ' dia. rough circular
6' deep concrete and brick pit.

Well pit filled with dirt by RMA.

Well plugging record:

Washed and cleaned hole to 400' depth.

Blasted casing at 400' depth.

Pumped 250 gal. neat cement grout in hole.

Blasted casing at 250' depth.

Pumped 190 gal. neat cement grout in hole.

Blasted casing at 70' depth.

Tremied 50 gal. neat cement grout in hole.

Blasted casing at 35' depth.

Tremied 50 gal. neat cement grout in hole.

Hard cement in hole at 10' depth.

Section 36, T2S, R67W

Well #D-23 (Well #1 on reference map)

No data on total depth.

Unable to locate this well. Rocky Mountain Arsenal
records indicate the well was razed and filled.

Well #D-24 (Well #2 on reference map)

No data on total depth.

Unable to locate this well. Rocky Mountain Arsenal
records indicate the well was razed and filled.

APPENDIX E
PRE-1942 WELLS
SUMMARY OF AVAILABLE DATA

LEGEND

Section Number

Hole Number

numeral - number from Map 7164-2105
letter - additional well from appraisal reports

Tract Number - 1942

From appraisal reports

Tract Number - 1946

From Army data shown in Appendix B

Well Status

C = "covered" P = "plugged"

F = "filled"

A = "as is"

Well Depth in Feet

(600) - more than one well on a parcel;
uncertainty as to which one the depth refers

S = Shallow

D = Deep

Casing Type

C = Concrete

I = Iron

B = Brick

C/S = Steel casing in concrete pit or casing

S = Steel

Note: Data for each well appears on two consecutive pages.

* = Suggested priority well for investigation.

PRE-1942 WELLS

SUMMARY OF AVAILABLE DATA

| SECTION
NUMBER | HOLE
NUMBER | TRACT
NUMBER | | CASING DIAMETER
IN INCHES | | CASING TYPE | |
|-------------------|----------------|-----------------------------|---------------------------------------------|------------------------------|---------------------------------------------|---------------------------|---------------------------------------------|
| | | 1942
REPORTS
ATTACH 2 | 1946
ARMY
WELL
INVENTORY
APP. B | 1942
REPORTS
APP. B | 1946
ARMY
WELL
INVENTORY
APP. C | 1942
REPORTS
APP. A | 1946
ARMY
WELL
INVENTORY
APP. C |
| 1 | A | E5 | | 6 | | | |
| | B | E6 | | 6 | | | |
| 2 | 1 | B66 | B66 | 6 | 4 | | |
| | 2 | B65 | B65 | | 6 | | |
| | 3 | B63 | B63 | | | | |
| | 4 | B63 | B63 | | | | |
| | 5 | B12 | B12 | | | | |
| 3 | 1 | B62 | B62 | | 40 | | C |
| | 22 | B62 | B62 | | | | |
| | 2 | B61 | B61 | | 6 | | |
| | 3 | B60 | B60 | | | | |
| | 4 | B50 | B55 | | | | |
| | 5 | B5 | B12 | | 6 | | |
| | 6 | B4 | B4 | | 6 | | |
| | 7 | B6 | B6 | | 8 | | |
| | 8 | B37 | B37 | | | | |
| | 9 | B42 | B42 | | | | |
| | A | B42 | | | | | |
| 10 | 10 | B43 | B43 | | 18 | | TILE |
| | 11 | B44 | B44 | | 6 | | |

PRE-1942 WELLS

SUMMARY OF AVAILABLE DATA

| SECTION
NUMBER | HOLE
NUMBER | TRACT
NUMBER | | CASING DIAMETER
IN INCHES | | CASING TYPE | |
|-------------------|----------------|--------------------------------------------------------------|-----------------------------------------------------------------|------------------------------|---------------------------------------------|------------------------------|---------------------------------------------|
| | | TRACT
NUMBER
-1942
APPRAISAL
REPORTS
ATTACH 2 | TRACT
NUMBER
-1946
ARMY
WELL
INVENTORY
APP. B | 1942
APPRAISAL
REPORTS | 1946
ARMY
WELL
INVENTORY
APP. B | 1942
APPRAISAL
REPORTS | 1946
ARMY
WELL
INVENTORY
APP. B |
| | 2105 | | | | | | |
| | 12 | B44 | B56 | 48 | | | |
| | 13 | B51 | B51 | 6 | | | |
| | 14 | B58 | B58 | | | | |
| | 15 | B40 | B40 | | | | |
| | 16 | B38 | B38 | 6 | | | |
| | 17 | B57 | B52 | 48 | | | |
| | 18 | B59 | B59 | 6 | | | |
| | 19 | B54 | B54 | 30 | | | |
| | B | B54 | | 42 | | | |
| | 20 | B52A | B52A | | | | |
| | 21 | B53 | B53 | | | | |
| | C | B10 | | | | | |
| | D | B11 | | 6 | | | |
| | (23) | B39 | B39 | 6 | | | |
| | F | B41 | | | | | |
| | G | B46 | | | | | |
| | H | B48 | | | | | |
| | I | B49 | | | | | |
| | J | B55 | | | | | |
| | K | B55 | | | | | |

PRE-1942 WELLS

| SECTION
NUMBER | HOLE
NUMBER | TRACT | | CABING DIAMETER
IN INCHES | | CABING TYPE | |
|-------------------|----------------|-----------------------------------------------------|--------------------------------------------------------|---------------------------------------------|---------------------------------------------|----------------------------------------|---------------------------|
| | | NUMBER
-1942
APPRAISAL
REPORTS
ATTACH 2 | NUMBER
-1946
ARMY
WELL
INVENTORY
APP. B | 1946
ARMY
WELL
INVENTORY
APP. B | 1946
ARMY
WELL
INVENTORY
APP. B | 1942
APPRAISAL
REPORTS
APP. A | 1955-56
USGS
APP. C |
| 5 | E | B36A | | | | | |
| | F | B36B | | | | | |
| | 1 | E8 | E8 | | 36 | | B |
| | 2 | E9 | E9 | | | | |
| | 3 | E9 | E9 | | 4 | | 1 |
| 6 | 4 | E4 | E4 | | | | |
| | 1 | E3 | E3 | | | | |
| | 2 | E3 | E3 | 6 | | | |
| | 3 | E3 | E3 | 6 | | | |
| | 4 | E3 | E3 | | | | |
| 8 | 5 | E2B | E2B | | | | |
| | 6 | E7 | E7 | 6 | | | |
| | 1 | E92 | E92 | | 30 | | B |
| | A | E92 | | | | | B |
| | 1 | B85 | B85 | | | | |
| 9 | 2 | B85 | B85 | | | | |
| | 16 | B85 | B85 | 6 | | | |
| | 3 | B85 | B85 | 4 | | | |
| | 4 | B71 | B71 | 6 | | | C |
| | 5 | B124 | B124 | 30 | | | |

SUMMARY OF AVAILABLE DATA

| SECTION
NUMBER | HOLE
NUMBER | TRACT
NUMBER | | CASING DIAMETER
IN INCHES | | CASING TYPE | | | |
|-------------------|----------------|-------------------------------------------|----------------------------------------------|------------------------------|---------------------------------------------|------------------------------|---------------------------------------------|---|---|
| | | -1942
APPRAISAL
REPORTS
ATTACH 2 | -1946
ARMY
WELL
INVENTORY
APP. B | 1942
APPRAISAL
REPORTS | 1946
ARMY
WELL
INVENTORY
APP. B | 1942
APPRAISAL
REPORTS | 1946
ARMY
WELL
INVENTORY
APP. B | | |
| 2105 | 10 | B124 | B124 | | | | | | |
| | 6 | B67 | B67 | | 6 | | | | |
| | 7 | B76 | B69 | | | | | | |
| | 19 | B76 | B76 | | | | | | |
| | 8 | B140 | B140 | | 36 | | | B | |
| | 9 | B82 | B83 | 36/7 | 40 | | | | |
| | 11 | B142 | B142 | | | | | | |
| | 15 | B142 | B142 | | | | | | |
| | 12 | B122 | B122 | 6 | | | | | |
| | 13 | B122 | B122 | | | | | | |
| | 14 | B79 | B79 | | 36 | | | C | |
| | 17 | B123 | B123 | | 6 | 6 | | | 1 |
| | 18 | B73 | B73 | | 6 | 5 | | | 1 |
| | A | B69 | | | | | | | |
| | B | B72 | | | | | | | |
| | C | B75 | | | | | | | |
| | D | B80 | | | | | | | |
| | (20) | B81 | | | 48 | 6 | | | |
| | F | B83 | | | | | | | |
| G | B125 or
126 | | | | | | | | |

PRE-1942 WELLS

SUMMARY OF AVAILABLE DATA

| SECTION
NUMBER | HOLE
NUMBER | TRACT
NUMBER | TRACT
NUMBER | CASING DIAMETER
IN INCHES | | CASING TYPE | | |
|-------------------|----------------|-----------------|-----------------|------------------------------|------------------------------------------------------------------|------------------------------|------------------------------------------------------------------|---------------------------|
| | | | | 1942
APPRAISAL
REPORTS | 1946
ARMY
WELL
APPRAISAL
INVENTORY
U808
APP. B | 1942
APPRAISAL
REPORTS | 1946
ARMY
WELL
APPRAISAL
INVENTORY
U808
APP. B | 1955-56
U808
APP. C |
| 10 | 1 | B159 | B158 | | 8 | | | |
| | 2 | B154 | B154 | | 48 | | C | |
| | 3 | B152 | B152 | | 40 | | | |
| | 4 | B161 | B161 | | 36 | | C | |
| | 5 | B163 | B163 | | | | C | |
| | 17 | B163 | B163 | | 6 | | | |
| | 21 | B163 | B163 | | | | | |
| | 6 | B149 | B149 | | 6 | | | |
| | 7 | B145 | B151 | | | | B | |
| | 8 | B147 | B147 | | 6 | | | |
| | 9 | B150 | B150 | 36 | 48 | C | C | |
| | 20 | B150 | B150 | | | | B | |
| | 10 | B146 | B146 | | | | | |
| | 11 | B67 | B87 | | | | | |
| | 12 | B88 | B88 | | 48 | | C | |
| | 13 | B89 | B89 | | 36 | | B | |
| | 16 | B89 | B89 | | | | | |
| | 14 | B85 | B86 | | | | | |
| | 22 | B85 | B86 | | | | | |
| | A | B86 | B86 | | 5 | | | |

PRE-1942 WELLS

SUMMARY OF AVAILABLE DATA

| SECTION
NUMBER | HOLE
NUMBER | TRACT
NUMBER
-1942
REPORTS
ATTACH 2 | TRACT
NUMBER
-1946
ARMY
APPRAISAL
WELL
INVENTORY
APP. B | CASING DIAMETER
IN INCHES | | CASING TYPE | | |
|-------------------|----------------|-------------------------------------------------|------------------------------------------------------------------------------|----------------------------------------|---------------------------------------------|----------------------------------------|---------------------------------------------|---------------------------|
| | | | | 1942
APPRAISAL
REPORTS
APP. B | 1946
ARMY
WELL
INVENTORY
APP. C | 1942
APPRAISAL
REPORTS
APP. A | 1946
ARMY
WELL
INVENTORY
APP. B | 1955-56
USGS
APP. C |
| 11 | 15 | B92 | B92 | | | | | |
| | 18 | B165 | B165 | | | | | |
| | 19 | B160 | B162 | | | | | |
| | B | B164 | | | | | | |
| | 1 | B189 | B189 | 48 | | C | | |
| | A | B189 | | | | | | |
| | 2 | B187 | B187 | 48 | | C | | |
| | 3 | B186 | B186 | 48 | | C | | |
| | 4 | B185 | B185 | 48 | 40 | C | | |
| | 5 | B188 | B188 | 48 | | C | | |
| | 6 | B184 | B184 | 48 | | C | | |
| | 7 | B176 | B176 | 6 | | | | |
| | 8 | B175 | B175 | 48 | | C | | |
| | 9 | B190 | B170 | 48 | 36/6 | C | | |
| | B | B170 | | | | | | |
| | 10 | B178 | B178 | 6 | | | | |
| | 11 | B172 | B172 | 36 | | | | |
| | 12 | B180 | B180 | 10 | | C | | |
| | 13 | B120 | B120 | 48 | | | | |
| | 28 | B120 | B120 | 48 | | | | |
| | | | | | | | | |
| | | | | | | | | |

PRE-1942 WELLS

SUMMARY OF AVAILABLE DATA

| SECTION
NUMBER | HOLE
NUMBER | TRACT
NUMBER | | CASING DIAMETER
IN INCHES | | CASING TYPE | |
|-------------------|----------------|------------------------------------------|---------------------------------------------|----------------------------------------|---------------------------------------------|----------------------------------------|---------------------------------------------|
| | | 1942
APPRAISAL
REPORTS
ATTACH 2 | 1946
ARMY
WELL
INVENTORY
APP. B | 1942
APPRAISAL
REPORTS
APP. B | 1946
ARMY
WELL
INVENTORY
APP. C | 1942
APPRAISAL
REPORTS
APP. A | 1946
ARMY
WELL
INVENTORY
APP. C |
| 14 | B113 | B113 | B113 | 48 | 48/7 | C | C |
| 15 | B112 | B112 | B112 | 8 | | | |
| 16 | B118 | B118 | B118 | 40 | 36 | C | C |
| 17 | B107 | B107 | B107 | 6 | 6 | | |
| 18 | B117 | B117 | B117 | | | | |
| 19 | B117 | B117 | B116 | | | | |
| 20 | B110 | B110 | B110 | | 36 | | C |
| 21 | B109 | B109 | B109 | | 40 | C | C |
| 22 | B104 | B104 | B104 | 5 | 6 | | |
| 23 | B105 | B105 | B105 | | | C | |
| 24 | B101 | B101 | B101 | | | | |
| 25 | B100 | B100 | B100 | | 6 | | |
| C | B100 | B100 | | | | | |
| 26 | B99 | B99 | B99 | 6 | 6 | | |
| 27 | B95 | B95 | B95 | | | | B |
| D | B108 | | | | | | |
| E | B114 | | | | | | |
| F | B115 | | | | | | |
| G | B168 | | | 36/6 | | | |
| (29) | B168 | B168 | B168 | 36/12 | 36 | | C |

SUMMARY OF AVAILABLE DATA

| SECTION
NUMBER | HOLE
NUMBER | TRACT | | CASING DIAMETER
IN INCHES | | CASING TYPE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------|----------------|----------------------------------------------|--------------------------------------------------------------|-----------------------------------|---------------------------------------------------|-----------------------------------|---------------------------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----|
| | | NUMBER
-1942
APPRAISAL WELL
REPORTS | NUMBER
-1946
ARMY
WELL
APPRAISAL WELL
REPORTS | 1942
APPRAISAL WELL
REPORTS | 1946
ARMY
WELL
APPRAISAL WELL
REPORTS | 1942
APPRAISAL WELL
REPORTS | 1946
ARMY
WELL
APPRAISAL WELL
REPORTS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | 1 | B182 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | </ |

PRE-1942 WELLS

SUMMARY OF AVAILABLE DATA

| SECTION
NUMBER | HOLE
NUMBER | TRACT | | CASING DIAMETER
IN INCHES | | CASING TYPE | |
|-------------------|----------------|----------------------|----------------------|------------------------------|----------------------|----------------------|----------------------|
| | | NUMBER
-1942 | NUMBER
-1946 | 1942 | 1946 | 1942 | 1946 |
| 7164- | 2105 | APPRAISAL
REPORTS | APPRAISAL
REPORTS | APPRAISAL
REPORTS | APPRAISAL
REPORTS | APPRAISAL
REPORTS | APPRAISAL
REPORTS |
| | | ATTACH 2 | ATTACH 2 | APP. B | APP. B | APP. A | APP. C |
| | | INVENTORY | INVENTORY | WELL | WELL | WELL | WELL |
| | | | | 1955-56 | 1955-56 | 1955-56 | 1955-56 |
| | | | | USGS | USGS | USGS | USGS |

| | | | | |
|----|------|-----|------|-----|
| 18 | E58 | E59 | 18 | I |
| 19 | E88 | E87 | 6 | |
| 20 | E89 | E88 | 8 | |
| 21 | E89 | E89 | | |
| B | E89 | | | |
| 22 | E85 | E85 | 6 | |
| C | E13 | | | |
| D | E13 | | | |
| E | E18 | | | C |
| F | E19 | | | |
| G | E33 | | | |
| H | E45A | | | |
| I | E50 | | | |
| J | E52 | | | C/S |
| K | E56 | | | C/S |
| L | E59 | | 36/7 | C/S |
| M | E81 | | 6 | |
| N | E82 | | | |
| O | E84 | | 6 | |
| P | 390 | | 6 | |

PRE-1942 WELLS

SUMMARY OF AVAILABLE DATA

| SECTION
NUMBER | HOLE
NUMBER | TRACT
NUMBER | | CASING DIAMETER
IN INCHES | | CASING TYPE | |
|-------------------|----------------|------------------------------|-----------------------------------------------|------------------------------|---------------------------------------------|------------------------------|---------------------------------------------|
| | | 1942
APPRAISAL
REPORTS | 1946
ARMY
WELL
INVENTORY
ATTACH 2 | 1942
APPRAISAL
REPORTS | 1946
ARMY
WELL
INVENTORY
APP. B | 1942
APPRAISAL
REPORTS | 1946
ARMY
WELL
INVENTORY
APP. C |
| 19 | 1 | D11 | D11 | 6 | 6 | I | I |
| 20 | 1 | D5 | D5 | 10 | | | |
| | 2 | D5 | D5 | | | | |
| | 3 | D5 | D5 | 4 | 3.5 | I | I |
| | 4 | D7 | D7 | 4 | 4.5 | I | I |
| 22 | 1 | A49 | A49 | 6 | | | |
| | 2 | A49 | A49 | | 36 | C | C |
| | 3 | A1 | A1 | 6 | 4.5 | I | I |
| 23 | 1 | A54 | A54 | | 24 | I | I |
| | 2 | A54 | A54 | 36 | | C | C |
| | 8 | A54 | A54 | 36 | | C | C |
| | 3 | A3 | A3 | 48 | 48 | C | C |
| | 5 | A3 | A3 | 6 | 5 | I | I |
| | 4 | A2 | A2 | 6 | | | |
| | 6 | A4 | A4 | 6 | | | |
| | 7 | A4 | A4 | 48 | 32 | | C |
| 24 | 1 | D10 | D10 | | | | |
| | 2 | D9 | D9 | 8 | | | |
| | 3 | D1 | D1 | 120/5 | 6 | C | C |
| | 4 | D1 | D1 | 24 | 24 | | C |

SUMMARY OF AVAILABLE DATA

| SECTION
NUMBER | HOLE
NUMBER | TRACT | | CASING DIAMETER
<u>IN INCHES</u> | | CASING TYPE | |
|-------------------|----------------|-----------------|-----------------|-------------------------------------|----------------|-------------|-------------|
| | | NUMBER
-1946 | NUMBER
-1942 | TRAC
-1946 | TRACT
-1942 | IN INCHES | CASING TYPE |
| 25 | 5 | D1 | D1 | 5 | 60 | | |
| | 6 | D1 | D1 | | 8 | 48 | C |
| | A | D2 | | | | 8 | I |
| | 1 | D10 | D10 | | 6 | | |
| 26 | 2 | D10 | D10 | | 6 | | |
| | 3 | D10 | D10 | | | | |
| | 1 | A87 | A87 | | 8 | | |
| | 2 | A59 | A59 | | 36 | 28 | B |
| 27 | 3 | A59 | A59 | | 36 | | |
| | 1 | A58 | A58 | | | 7 | I |
| | 2 | A53A | A53B | | | | |
| | 3 | A55 | A55 | | | | |
| | 4 | A55C | A55C | | | | |
| | 5 | A86 | A86 | | 6 | 3.5 | I |
| | 6 | A57B | A57B | | 36/7 | | |
| | A | A57 | | | | | |
| 28 | 1 | A81 | A56A | | 4 | 44/18 | C/I |
| | 2 | A84 | A84 | | 48 | | |
| | A | A56 | | | | | |
| | B | A56A | | | | | |

PRE-1942 WELLS

SUMMARY OF AVAILABLE DATA

| SECTION
NUMBER | HOLE
NUMBER | TRACT
NUMBER | TRACT
NUMBER | CASING DIAMETER | | CASING TYPE | |
|-------------------|----------------|-----------------|------------------------------------------------------------|----------------------|----------------------|------------------------------------------|-------------------------------------|
| | | | | IN INCHES | | IN INCHES | |
| 30 | C | A82 | -1946
ARMY
APPRAISAL WELL
REPORTS ATTACH 2 APP. B | 1946
ARMY
WELL | 1946
ARMY
WELL | 1942
APPRAISAL WELL
REPORTS APP. A | 1955-56
INVENTORY USGS
APP. B |
| | 5 | D13 | | | | | |
| | 4 | D14 | | | | | |
| | 1 | D20 | | 6 | 6 | | 1 |
| | 6 | D20 | | | | | |
| | 2 | D21 | | 36 | | 8 | |
| | 3 | D21 | | | | | |
| | 4 | D25 | | 12 | 12 | | 1 |
| | 9 | D25 | | | | | |
| | 2 | D26 | DUG | 6 | | | |
| 31 | 3 | D26 | | | | | |
| | 5 | D28 | | 48 | | 8 | |
| | 6 | D28 | | | 30 | | C |
| | 7 | D28 | | | | | |
| | 8 | D28 | | 6 | | | |
| | 1 | D30 | | 36 | | | C |
| | 4 | D5 | | | | | |
| | 6 | D5 | | 6 | | | |
| | 1 | D31 | DUG/7 | 36 | | | C |
| | 2 | D31 | | | DUG | | |
| 32 | 4 | D5 | | | | | |
| | 6 | D5 | | 6 | | | |
| | 1 | D31 | | | | | |
| | 2 | D31 | | | | | |
| | 3 | D31 | | | | | |
| | 4 | D31 | | | | | |
| | 5 | D31 | | | | | |
| | 6 | D31 | | | | | |
| | 7 | D31 | | | | | |
| | 8 | D31 | | | | | |

SUMMARY OF AVAILABLE DATA

| SECTION
NUMBER | HOLE
NUMBER | TRACT
NUMBER | | TRACT
NUMBER | | CASING DIAMETER
IN INCHES | | CASING TYPE | |
|-------------------|----------------|-----------------|-----------------|-----------------|-----------------|------------------------------|-----------------|-----------------|-----------------|
| | | TRACT
NUMBER | TRACT
NUMBER | TRACT
NUMBER | TRACT
NUMBER | TRACT
NUMBER | TRACT
NUMBER | TRACT
NUMBER | TRACT
NUMBER |
| 33 | 3 | D32 | D32 | D32 | D32 | 20 | 24 | I | C |
| | 5 | D32 | D32 | D32 | D32 | 20 | 24 | I | C |
| | 1 | A76 | A76 | A74 | A74 | 30 | 30 | C | C |
| | 2 | A76 | A76 | A74 | A74 | 30 | 30 | C | C |
| | 9 | A76 | A76 | A76 | A76 | 48 | 48 | C | C |
| | 10 | A76 | A76 | A75 | A75 | 36 | 36 | C | C |
| | 3 | A93 | A93 | A93 | A93 | 6 | 6 | C | C |
| | 4 | A93 | A93 | A93 | A93 | 6 | 6 | C | C |
| | 5 | A88 | A88 | A88 | A88 | 30 | 30 | B | B |
| | 6 | A88 | A88 | A88 | A88 | 3 | 3 | B | B |
| 34 | 7 | A798 | A798 | A79 | A79 | 7 | 6 | I | I |
| | 8 | A78 | A78 | A79D | A79D | 7 | 6 | I | I |
| | 11 | A75 | A75 | A75 | A75 | 7 | 6 | I | I |
| | A | A74 | A74 | A74 | A74 | 7 | 6 | I | I |
| | B | A79A | A79A | A79A | A79A | 7 | 6 | I | I |
| | C | A79C | A79C | A79C | A79C | 7 | 6 | I | I |
| | D | A79D | A79D | A79D | A79D | 7 | 6 | I | I |
| | E | A79E | A79E | A79E | A79E | 7 | 6 | I | I |
| | F | A94 | A94 | A94 | A94 | 7 | 6 | I | I |
| | 1 | A89 | A89 | A89 | A89 | 30 | 30 | B | B |

SUMMARY OF AVAILABLE DATA

| SECTION
NUMBER | HOLE
NUMBER | TRACT | | CASING DIAMETER
IN INCHES | | CASING TYPE | |
|-------------------|----------------|-----------------|-----------------|------------------------------|----------------------|------------------------------|---------------------------------|
| | | NUMBER
-1942 | NUMBER
-1946 | 1946
ARMY
WELL | 1946
ARMY
WELL | 1942
APPRAISAL
REPORTS | 1955-56
APPRAISAL
REPORTS |
| 35 | 1 | A91 | A91 | 4 | 3.5 | | |
| | 2 | A90 | A90 | 36 | 30/8 | | C/I |
| | 3 | A92 | A92 | | | | |
| | 4 | A92 | A92 | | | | |
| | A | A97 | | | | | |
| 36 | 1 | D23 | D23 | | | | |
| | 2 | D24 | D24 | | | | |
| | A | D24 | D24 | | | | |

SUMMARY OF AVAILABLE DATA

| SECTION
NUMBER | HOLE
NUMBER | TRACT | | TRACT | | WELL STATUS | | WELL DEPTH IN FEET | |
|-------------------|----------------|-----------------------------------------------------|--------------------------------------------------------|------------------------------|---------------------------------------------|---------------------------|---------------|---------------------------|---------------------------|
| | | NUMBER
-1942
APPRAISAL
REPORTS
ATTACH 2 | NUMBER
-1946
ARMY
WELL
INVENTORY
APP. B | 1943
MAP
7164-
2105 | 1946
ARMY
WELL
INVENTORY
APP. B | 1955-56
USGS
APP. C | 1981
G & M | 1955-56
USGS
APP. C | 1981
G & M
ATTACH 3 |
| 1 | A | E5 | | | | | | 40 | |
| | B | E6 | | | | | | 40 | |
| 2 | 1 | B66 | B66 | C | C | | C | 30 | S |
| | 2* | B65 | B65 | C | C | | C | 89 | S |
| 3 | 3 | B63 | B63 | F | F | | | (600) | |
| | 4 | B63 | B63 | C | F | | | | |
| 5 | 5 | B12 | B12 | A | C | | | 170+ | D |
| | 1 | B62 | B62 | A | A | | F | (70) | S |
| 22 | 22 | B62 | B62 | C | | | | (7) | |
| | 2 | B61 | B61 | C | C | | F | ? | S |
| 3 | 3 | B60 | B60 | A | F | | | 42 | S |
| | 4 | B50 | B55 | A | C | | | 50 | S |
| 5 | 5 | B5 | B12 | A | A | | | 73 | S |
| | 6 | B4 | B4 | A | A | | | 5 | S |
| 7 | 7 | B6 | B6 | A | A | | | ? | S |
| | 8 | B37 | B37 | A | | | | ? | |
| 9 | 9 | B42 | B42 | A | F | | | (700) | D |
| | A | B42 | | | | | | (S) | |
| 10 | 10 | B43 | B43 | C | C | | | ? | S |
| | 11* | B44 | B44 | C | C | | | (500) | D |

SUMMARY OF AVAILABLE DATA

[illegible]

SUMMARY OF AVAILABLE DATA

| SECTION
NUMBER | HOLE
NUMBER | TRACT | | WELL STATUS | | WELL DEPTH IN FEET | | | |
|-------------------|----------------|-----------------------------------------------------|--------------------------------------------------------|------------------------------|--------------------------------------------------------------------------|--------------------|------------------------------|---------------------------|---------------------------|
| | | NUMBER
-1946
APPRAISAL
REPORTS
ATTACH 2 | NUMBER
-1946
ARMY
WELL
INVENTORY
APP. B | 1943
MAP
7164-
2105 | 1946
ARMY
WELL
INVENTORY
APP. B
1955-56
USGS
APP. C | 1981
G & M | 1942
APPRAISAL
REPORTS | 1955-56
USGS
APP. B | 1981
G & M
ATTACH 3 |
| 5 | E | B36A | | | | | ? | | |
| | F | B36B | | | | | ? | | |
| | 1 | E8 | E8 | C | | C | 120 | 26 | 19 |
| | 2 | E9 | E9 | C | | | (35) | 118+ | 8 |
| 6 | 3 | E9 | E9 | C | C | | | | 700 |
| | 4 | E4 | E4 | C | | | D | | D |
| | 1 | E3 | E3 | C | C | | (16) | 14 | 8 |
| | 2 | E3 | E3 | C | | | (40) | | 8 |
| 7 | 3 | E3 | E3 | C | C | C | (20) | 17 | 17 |
| | 4 | E3 | E3 | F | F | | (D) | | 8 |
| | 5 | E2B | E2B | C | | | 27 | | 8 |
| | | E7 | E7 | C | C | C | 50 | 50 | 8 |
| 8 | 1 | E92 | E92 | C | C | C | 18 | | 22 |
| | A | E92 | | | | | 18 | | |
| | 1 | B85 | B85 | C | | | (500) | 34 | 8 |
| | 2 | B85 | B85 | A | F | | (900) | | 8 |
| 9 | 16 | B85 | B85 | C | | | (86) | 76 | 8 |
| | 3 | B85 | B85 | A | | | (85) | 108+ | D |
| | 4 | B71 | B71 | C | | | 78 | 75 | 8 |
| | 5 | B124 | B124 | C | | | (1000) | | 8 |

SUMMARY OF AVAILABLE DATA

| SECTION
NUMBER | HOLE
NUMBER | TRACT
NUMBER | | WELL STATUS | | WELL DEPTH IN FEET | |
|-------------------|----------------|-------------------------------------------|-------------------------------------|-------------------------------|---------------------------------------------|---------------------------------------------|---------------------------|
| | | -1946
APPRAISAL
REPORTS
ATTACH 2 | ARMY
WELL
INVENTORY
APP. B | -1946
MAP
7164-
2105 | 1946
ARMY
WELL
INVENTORY
APP. B | 1946
ARMY
WELL
INVENTORY
APP. B | 1981
G & M
ATTACH 3 |
| 10 | B124 | B124 | B124 | F | | | D |
| 6 | B67 | B67 | B67 | C | | 56 | S |
| 7 | B76 | B76 | B69 | A | | (75) | S |
| 19 | B76 | B76 | B76 | C | | | S |
| 8 | B140 | B140 | B140 | C | | ? | S |
| 9 | B82 | B82 | B83 | C | F | 55 | S |
| 11 | B142 | B142 | B142 | F | | (800) | D |
| 15 | B142 | B142 | B142 | F | | | S |
| 12 | B122 | B122 | B122 | F | | (73) | S |
| 13 | B122 | B122 | B122 | F | | | S |
| 14 | B79 | B79 | B79 | C | F | ? | S |
| 17 | B123 | B123 | B123 | C | C | 61 | S |
| 18 | B73 | B73 | B73 | C | C | 72 | S |
| A | B69 | | | | | 77 | |
| B | B72 | | | | | 76 | |
| C | B75 | | | | | 65 | |
| D | B80 | | | | | ? | |
| (20) | B81 | | | A | | 58 | |
| F | B83 | | | | | 70 | |

SUMMARY OF AVAILABLE DATA

| SECTION
NUMBER | HOLE
NUMBER | TRACT
NUMBER | | TRACT
NUMBER | | WELL STATUS | | WELL DEPTH IN FEET | | | |
|-------------------|----------------|-------------------------------|----------|------------------------------------|--------|------------------------------|---------------------------------------------|---------------------------|-------------------------|---------------------------|---|
| | | -1942
APPRAISAL
REPORTS | ATTACH 2 | -1946
ARMY
WELL
INVENTORY | APP. B | 1943
MAP
7164-
2105 | 1946
ARMY
WELL
INVENTORY
APP. B | 1955-56
USGS
APP. C | 1981
G & M
APP. C | 1981
G & M
ATTACH 3 | |
| | A | B86 | | | | | | | | | |
| | 15 | B92 | B92 | | C | | | (80) | 580 | 580 | 8 |
| | 18 | B165 | B165 | | A | | A | ? | | | 8 |
| | 19 | B160 | B162 | | C | | | 41 | | | 8 |
| | B | B164 | | | | | | 50 | | | |
| 11 | 1 | B189 | B189 | | C | | F | (?) | 33.5 | | 6 |
| | A | B189 | | | | | | (?) | | | |
| | 2 | B187 | B187 | | A | | | 56 | 32 | | 8 |
| | 3 | B186 | B186 | | C | | F | S | 32 | | 8 |
| | 4 | B185 | B185 | | C | | F | 30 | 47 | | 8 |
| | 5 | B188 | B188 | | C | | | S | 38 | | 8 |
| | 6 | B184 | B184 | | C | | F | S | 33.5 | | 8 |
| | 7 | B176 | B176 | | C | | F | | | | |
| | 8 | B175 | B175 | | C | | F | S | 35 | | 8 |
| | 9 | B190 | B170 | | C | | F | (72) | 34 | | 6 |
| | B | B170 | | | | | | | (54) | | |
| | 10 | B178 | B178 | | C | | | S | 39 | | 8 |
| 11 | B172 | B172 | | C | | F | D | 33 | | 8 | |
| 12 | B180 | B180 | | C | | | S | 33 | | 8 | |

SUMMARY OF AVAILABLE DATA

| SECTION
NUMBER | HOLE
NUMBER | TRACT
NUMBER | | TRACT
NUMBER | | WELL STATUS | | WELL DEPTH IN FEET | |
|-------------------|----------------|----------------------------------------|----------------------------------------------|------------------------------|---------------------------------------------|---------------------------|---------------|---------------------------|---------------------------|
| | | -1942
APPRAISAL
REPORTS ATTACH 2 | -1946
ARMY
WELL
INVENTORY
APP. B | 1943
MAP
7164-
2105 | 1946
ARMY
WELL
INVENTORY
APP. B | 1955-56
USGS
APP. C | 1981
G & M | 1955-56
USGS
APP. C | 1981
G & M
ATTACH 3 |
| 13 | B120 | B120 | B120 | C | F | (31) | 36 | S | |
| 28 | B120 | B120 | B120 | C | | (?) | 45 | S | |
| 14 | B113 | B113 | B113 | C | F | 45 | | S | |
| 15 | B112 | B112 | B112 | A | F | 44 | 38 | S | |
| 16 | B118 | B118 | B118 | C | F | 49 | 24 | S | |
| 17 | B107 | B107 | B107 | C | | 44 | 25 | | |
| 18 | B117 | B117 | B117 | C | A | (D) | | S | |
| 19 | B117 | B117 | B116 | C | C | | | S | |
| 20 | B110 | B110 | B110 | C | F | S | 27 | S | |
| 21 | B109 | B109 | B109 | A | F | 55 | 25 | S | |
| 22 | B104 | B104 | B104 | A | | 45 | 35 | S | |
| 23 | B105 | B105 | B105 | A | | 53 | | S | |
| 24 | B101 | B101 | B101 | C | | 7 | | S | |
| 25 | B100 | B100 | B100 | C | | (?) | 54 | S | |
| C | B100 | | | | | (?) | | | |
| 26 | B99 | B99 | B99 | C | | 30 | 42 | S | |
| 27 | B95 | B95 | B95 | C | | | 40 | S | |
| D | B108 | | | | | 45 | | | |
| E | B114 | | | | | ? | | | |

SUMMARY OF AVAILABLE DATA

| SECTION
NUMBER | HOLE
NUMBER | TRACT | | TRACT | | WELL STATUS | | WELL DEPTH IN FEET | | | |
|-------------------|----------------|-----------------------------------------------------|-------------------------------------|------------------------------|---------------------------------------------|---------------------------|---------------|---------------------------------------------|---------------------------|---------------------------|---|
| | | NUMBER
-1946
APPRAISAL
REPORTS
ATTACH 2 | ARMY
WELL
INVENTORY
APP. B | 1943
MAP
7164-
2105 | 1946
ARMY
WELL
INVENTORY
APP. B | 1955-56
USGS
APP. C | 1981
G & M | 1946
ARMY
WELL
INVENTORY
APP. B | 1955-56
USGS
APP. C | 1981
G & M
ATTACH 3 | |
| 12 | G | B168 | | | | | | (50) | | | |
| | (29) | B169 | B168 | | | | | (40) | 34 | | |
| | I | B182 | | | | | | 50 | | | |
| | J | B183 | | | | | | S | | | |
| | 1 | E34 | E34 | F | | | | S | | | |
| | 2 | E15 | E15 | C | | | | ? | 21 | | S |
| | 3 | E12 | E12 | C | | | | 65 | 25 | | S |
| | 4 | E11 | E11 | C | | | | 55 | 25 | 23 | S |
| | 5 | E10 | E10 | C | | | | S | 35 | | S |
| | 6 | E22 | E22 | C | | | | | 23.5 | | S |
| | 7 | E24 | E24 | C | | | | (D) | 29 | | S |
| | 8 | E25 | E25 | C | | | | S | 20 | | S |
| | 10 | E27 | E27 | C | | | | ? | 40 | | S |
| | 11 | E29 | E29 | C | | | | S | 30 | | S |
| | 12 | E43 | E43 | C | | | | D | 19 | | S |
| | 13 | E45 | E45 | C | | | | 50 | | | S |
| 14 | E54 | E54 | C | | | | 29 | 30 | | S | |
| 15 | E55 | E55 | C | | | | 45 | 22 | | S | |
| 16 | E47 | E46 | C | | | | S | | | S | |
| | | | | | | | | (30) | 25 | | S |

SUMMARY OF AVAILABLE DATA

[illegible]

PREF-1942 WELLS

SUMMARY OF AVAILABLE DATA

| SECTION
NUMBER | HOLE
NUMBER
MAP
7164-
2105 | TRACT
NUMBER
-1942
APPRAISAL
REPORTS
ATTACH 2 | TRACT
NUMBER
-1946
ARMY
WELL
INVENTORY
APP. B | WELL STATUS | | WELL DEPTH IN FEET | | | | | |
|-------------------|----------------------------------------|--------------------------------------------------------------|-----------------------------------------------------------------|------------------------------|---------------------------------------------|----------------------------------------|----------------------------------------|----------------------------------------|---------------------------|---|--|
| | | | | 1943
MAP
7164-
2105 | 1946
ARMY
WELL
INVENTORY
APP. B | 1955-56
INVENTORY
USGS
APP. C | 1942
APPRAISAL
REPORTS
APP. B | 1955-56
INVENTORY
USGS
APP. C | 1981
G & M
ATTACH 3 | | |
| 19 | D | E84 | | | | | 45 | | | | |
| | P | E90 | | | | | 70 | | | | |
| | 1 | D11 | D11 | | C | | ? | 14 | 14 | 8 | |
| | 1 | D5 | D5 | | C | | (600) | 24 | | S | |
| | 2 | D5 | D5 | | C | | (30) | | | D | |
| 20 | 3 | D5 | D5 | | C | | | | 173 | 8 | |
| | 4 | D7 | D7 | | C | | 296 | | | D | |
| | 1 | A49 | A49 | | C | | (524) | | | | |
| | 2 | A49 | A49 | | C | | | 34 | 32 | D | |
| | 3 | A1 | A1 | | C | | 500 | | 178.5 | D | |
| 23 | 1* | A54 | A54 | | A | | (?) | 63 | 63 | 8 | |
| | 2 | A54 | A54 | | C | | | 59 | | 8 | |
| | 8 | A54 | A54 | | C | | | 59 | | 8 | |
| | 3 | A3 | A3 | | C | | | | 47 | 8 | |
| | 5 | A3 | A3 | | A | | (520) | | 520 | D | |
| 24 | 4 | A2 | A2 | | C | | 460 | | | D | |
| | 6 | A4 | A4 | | C | | (418) | | | D | |
| | 7 | A4 | A4 | | C | | | 34 | 34 | 8 | |
| | 1 | D10 | D10 | | A | | (?) | | | | |
| | 2* | D9 | D9 | | F | | 1000 | 77 | | 8 | |

SUMMARY OF AVAILABLE DATA

| SECTION
NUMBER | HOLE
NUMBER | TRACT
NUMBER | | WELL STATUS | | WELL DEPTH IN FEET | |
|-------------------|----------------|-------------------------------------------|-------------------------------------|------------------------------|---------------------------------------------|---------------------------|---------------------------|
| | | -1946
APPRAISAL
REPORTS
ATTACH 2 | ARMY
WELL
INVENTORY
APP. B | 1943
MAP
7164-
2105 | 1946
ARMY
WELL
INVENTORY
APP. B | 1955-56
USGS
APP. C | 1981
G & M
ATTACH 3 |
| | 3 | D1 | D1 | C | (12) | 44 | S |
| | 4 | D1 | D1 | C | F | 34 | S |
| | 5 | D1 | D1 | C | F | 20 | S |
| | 6 | D1 | D1 | C | A | 49 | D |
| 25 | A | D2 | | | ? | 22 | |
| | 1 | D10 | D10 | A | | 79 | S |
| | 2 | D10 | D10 | C | (500) | 19 | S |
| | 3 | D10 | D10 | F | (?) | | S |
| 26 | 1 | A87 | A87 | C | B | 27 | S |
| | 2 | A59 | A59 | C | (?) | 39 | D |
| | 3* | A59 | A59 | C | (800) | 48 | S |
| | 1 | A58 | A58 | A | 620 | | D |
| 27 | 2 | A55A | A55B | C | | 45 | S |
| | 3 | A55 | A55 | F | 45 | | S |
| | 4 | A55C | A55C | C | 35 | 23 | S |
| | 5 | A86 | A86 | C | ? | 58 | S |
| 28 | 6 | A57B | A57B | C | 58 | | S |
| | A | A57 | | | 54 | | |
| | 1 | A81 | A56A | C | 18 | 48 | S |
| | 2 | A84 | A84 | C | | 47 | S |

SUMMARY OF AVAILABLE DATA

| SECTION
NUMBER | HOLE
NUMBER | TRACT | | 1943
MAP
7164-
2105 | WELL STATUS | | WELL DEPTH IN FEET | | | | | | | |
|-------------------|----------------|--------------------------------------------------------|----------------------------------|------------------------------|---------------------------------------------|---------------------------|------------------------------|---------------------------|---------------------------|----|----|--|--|---|
| | | NUMBER
-1946
ARMY
WELL
INVENTORY
APP. B | APPRAISAL
REPORTS
ATTACH 2 | | 1946
ARMY
WELL
INVENTORY
APP. B | 1955-56
USGB
APP. C | 1942
APPRAISAL
REPORTS | 1955-56
USGB
APP. B | 1981
G & M
ATTACH 3 | | | | | |
| 30 | A | A56 | | | | | | | | | | | | |
| | B | A56A | | | | | | | | | | | | |
| | C | A82 | | | | | | | | | | | | |
| | 5 | D13 | D13 | F | F | | | | | | | | | 8 |
| | 4 | D14 | D14 | A | | C | | | | | | | | 8 |
| | 1 | D20 | D20 | C | C | | | | | | 12 | | | 8 |
| | 6 | | D20 | C | | C | | | | | | | | 8 |
| | 2 | | D20 | C | | | (45) | | | | | | | 8 |
| | 3 | D21 | D21 | C | | | (810) | | | | | | | 8 |
| | 4 | D25 | D25 | C | | A | | | | | 29 | | | 8 |
| 31 | 9 | D25 | D25 | F | | | (40) | | | | | | | 8 |
| | 2 | D26 | D26 | C | | | (?) | | | 26 | | | | 8 |
| | 3 | D26 | D26 | F | | | | | | | | | | 8 |
| | 5 | D28 | D28 | C | | | (190) | | | 45 | | | | 8 |
| | 6 | D28 | D28 | C | | | | | | 49 | 41 | | | |
| | 7 | D28 | D28 | F | | | (50) | | | | | | | |
| | 8 | D28 | D28 | C | | | (50) | | | | | | | 8 |
| | 1 | D30 | D30 | F | | | ? | | | 25 | | | | 8 |
| | 4 | D5 | D5 | F | | F | (600) | | | | | | | 8 |
| | 6 | D5 | D5 | C | | | (30) | | | 30 | | | | 8 |

SUMMARY OF AVAILABLE DATA

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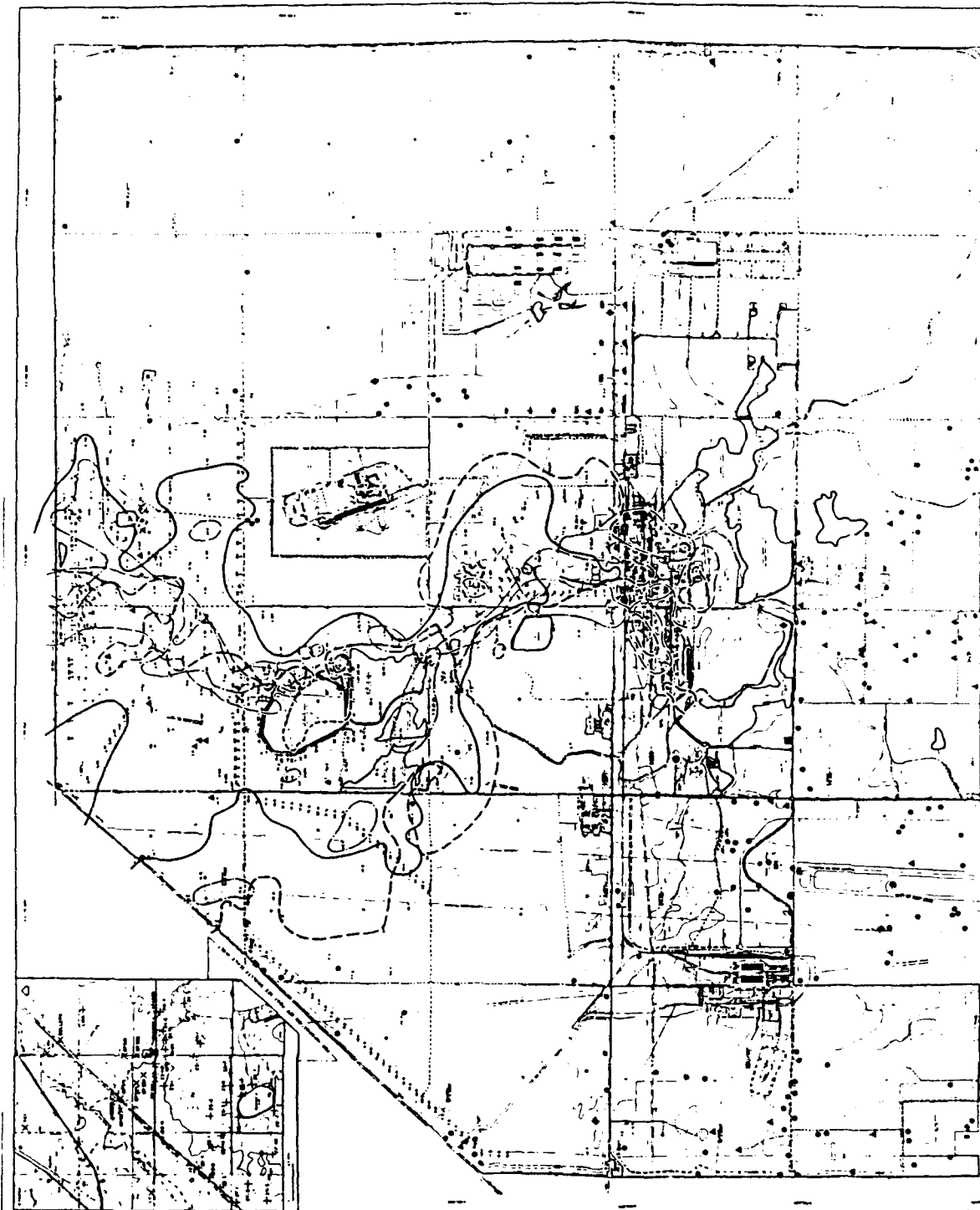
SUMMARY OF AVAILABLE DATA

[illegible]

PRE-1942 WELLS

SUMMARY OF AVAILABLE DATA
COE 1962 REPORT

| SECTION | WELL NO. | NO. | STATUS | CASING SIZE | CASING TYPE | APPARENT DEPTH | COMMENTS |
|---------|----------|-----|--------|-------------|-------------|----------------|--------------------|
| 22 | 1 | A49 | P | 6 in. | I | Over 290 ft. | |
| | 2 | A49 | | 3 ft. | C | 34 ft. | |
| | 3 | A1 | P | 4 in. | I | Over 292 ft. | |
| 23 | 4 | A2 | | | | | |
| | 5 | A3 | P | 4 in. | I | Over 300 ft. | Unable to locate |
| | 6 | A4 | | | | | |
| 24 | 1 | D10 | | 6 3/4 in. | galv. | | Unable to locate |
| | 6 | D1 | | 30 in. | galv. | 50 ft. | Filled with debris |
| 26 | 1 | A87 | | | | | |
| | 2 | A59 | | 30 in. | brick | 30 ft. | Unable to locate |
| 27 | 1 | A58 | P | 5 in. | I | over 280 ft. | |
| | 2 | A55 | P | 7 1/8 in. | galv. | 58 ft. | |
| 35 | 1 | A91 | P | 4 in. | I | Over 128 ft. | |
| | 4 | A92 | P | 5 1/2 in. | I | Over 400 ft. | |
| 36 | 1 | D23 | | | | | Unable to locate |
| | 2 | D24 | | | | | Unable to locate |



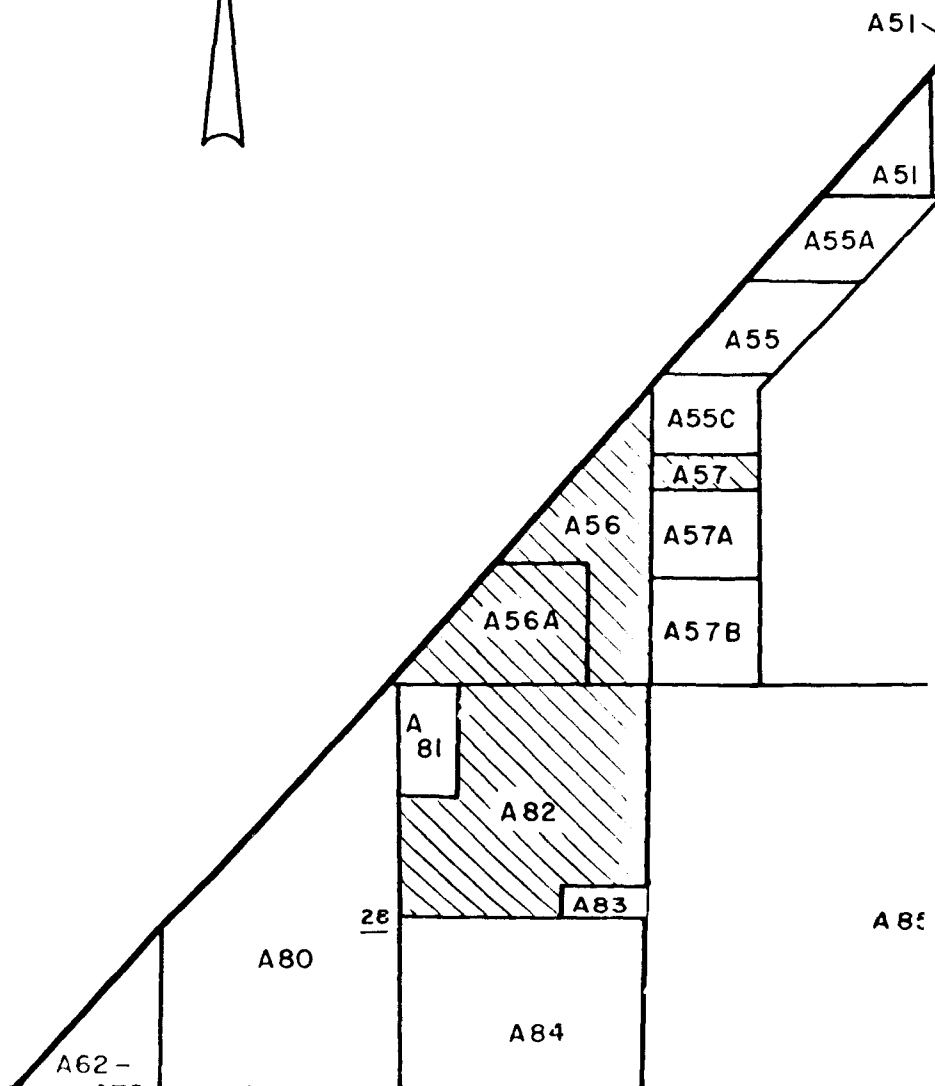
EXPLANATION

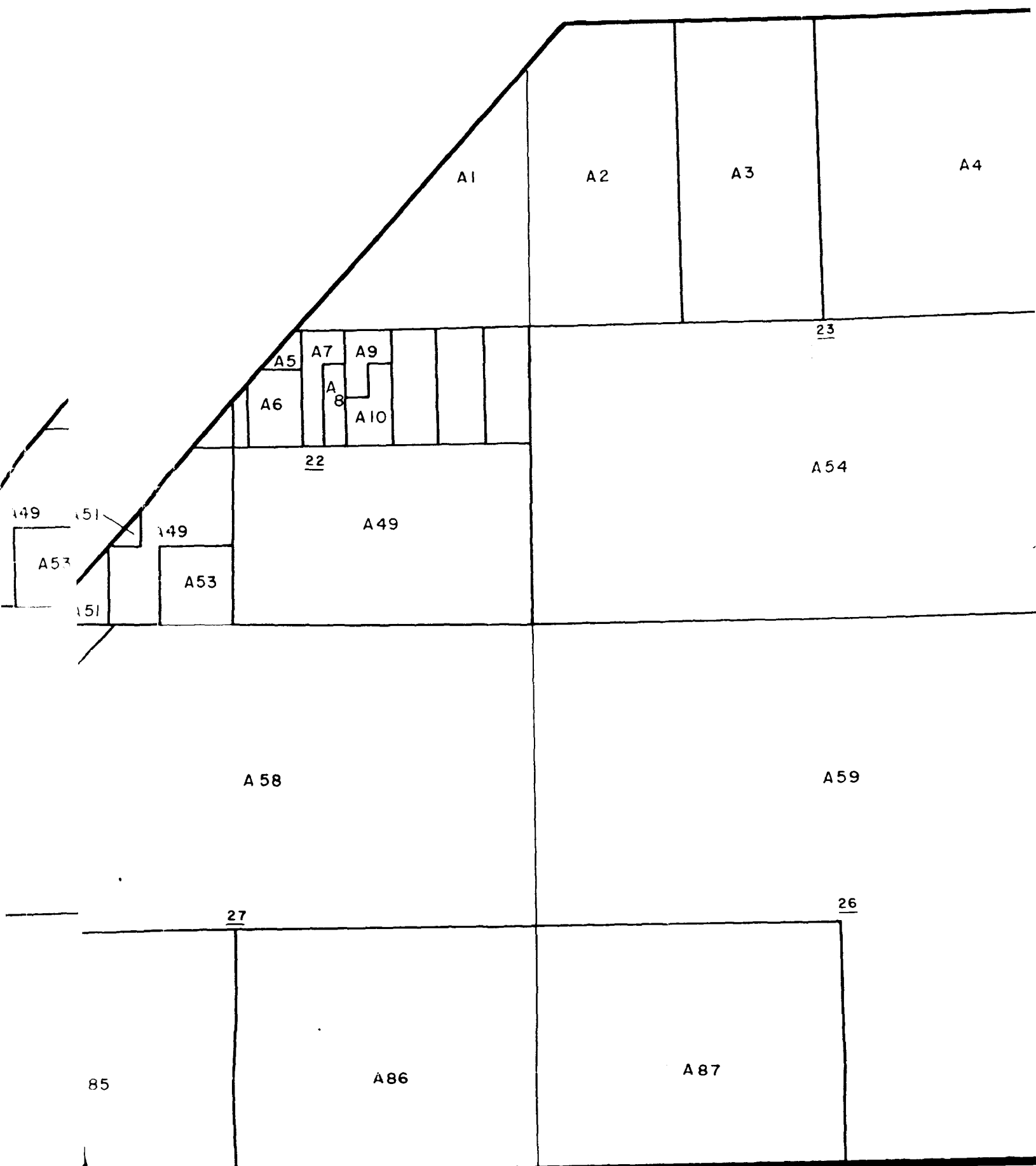
- Well Depth Greater Than 100 Feet
- Well Depth Less Than 100 Feet
- △ Filled Well
- Closed Well
- Pugged Well
- Plume of Chloride Pore
- Plume of Sulfate Pore
- Plume of Nitrate Pore
- Plume of Ammonium Pore

U.S. GEOLOGICAL SURVEY
 WATER RESOURCES DIVISION
 BRANCH OF HYDROLOGIC ENGINEERING
 LOCATION OF ABANDONED FARM WELLS
 AND PLUME PATTERNS
 NORTHERN MOUNTAIN AREA
 SOUTHERN CALIFORNIA

8243ROS
 1st copy

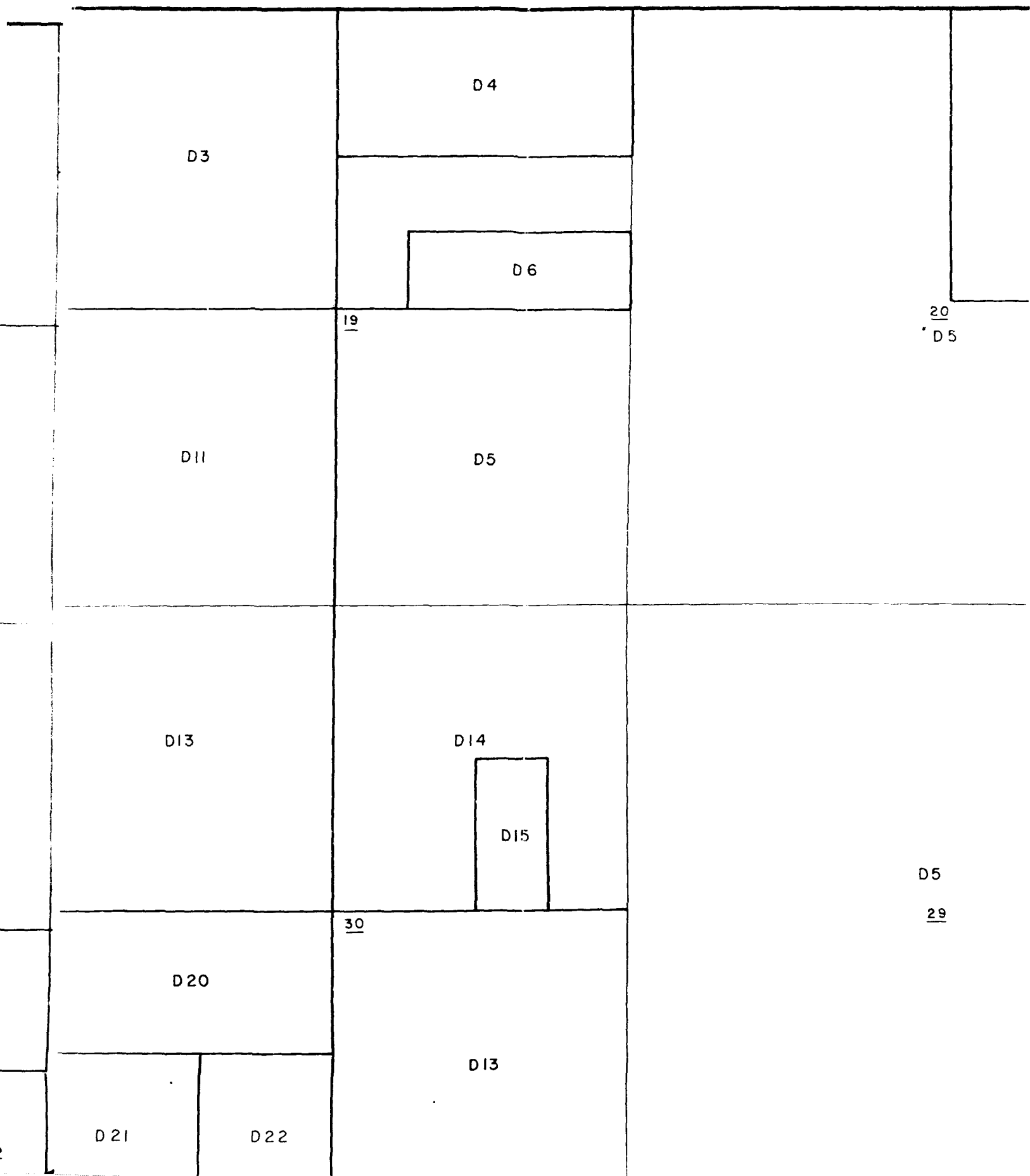
CL







29

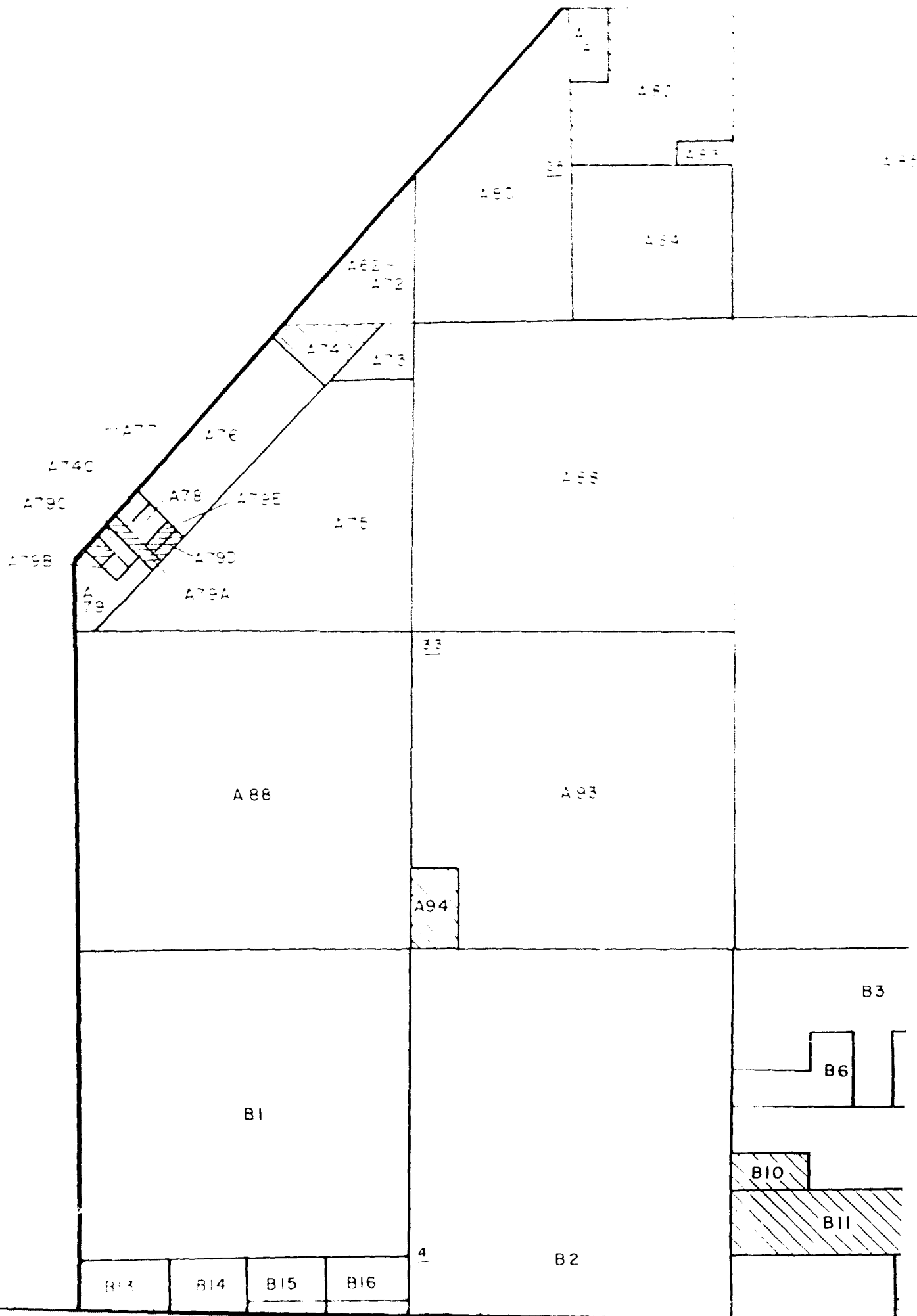


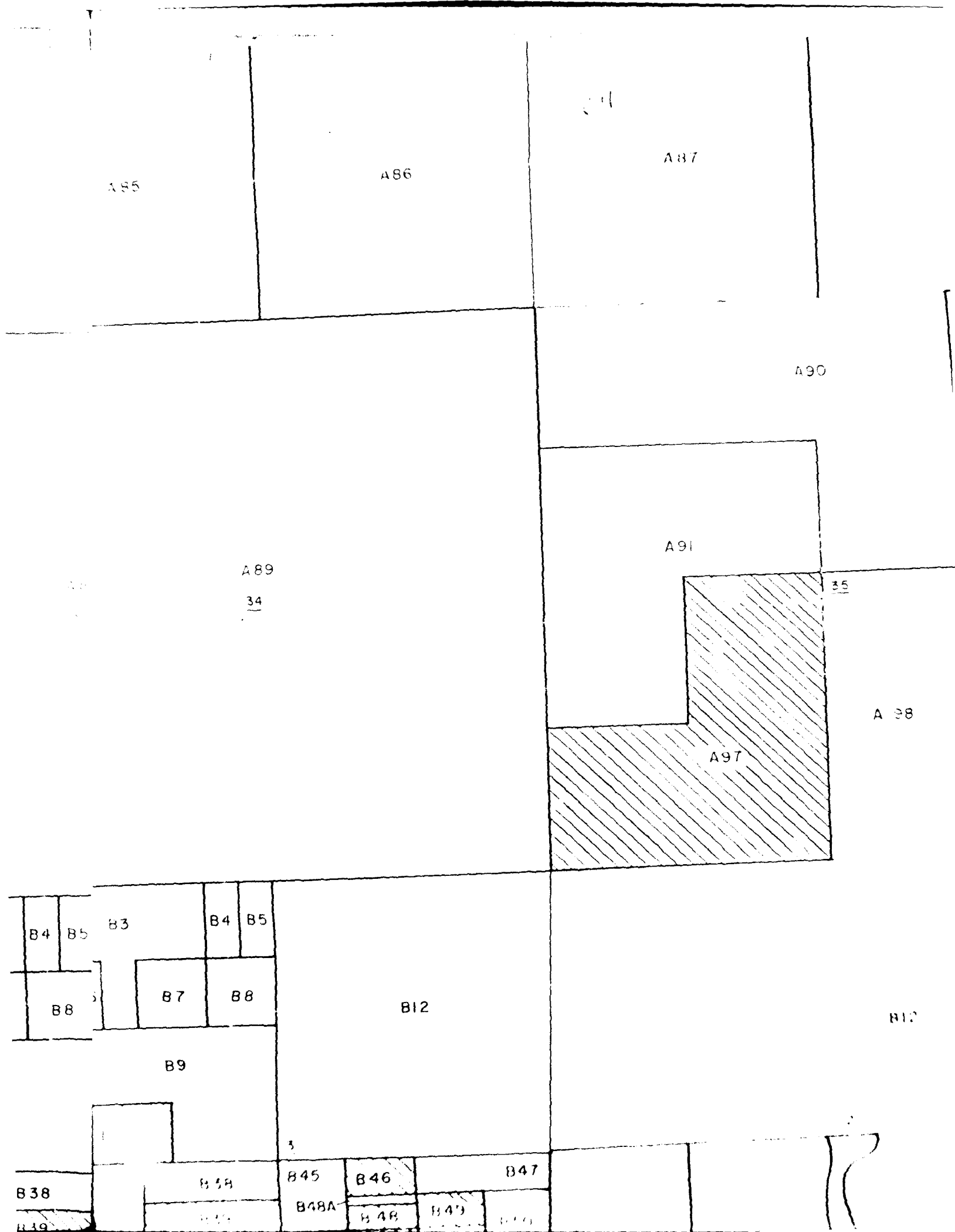
D7

20
D5

D5

29





D12

D16

D17

D2

D18

D19

A92

A92

D24

D23

36

A98

A98

A99

D23

D2

B12

E1

E2

E2A

E5

E5

E6

D20

D20

D13

D21

D22

D19

D25

D25

D26

D26

D27

D27

31

D28

D31

D23

D30

D3

E2B

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E5

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E8

E3

D5

D29

32

32

D31

D32

E4

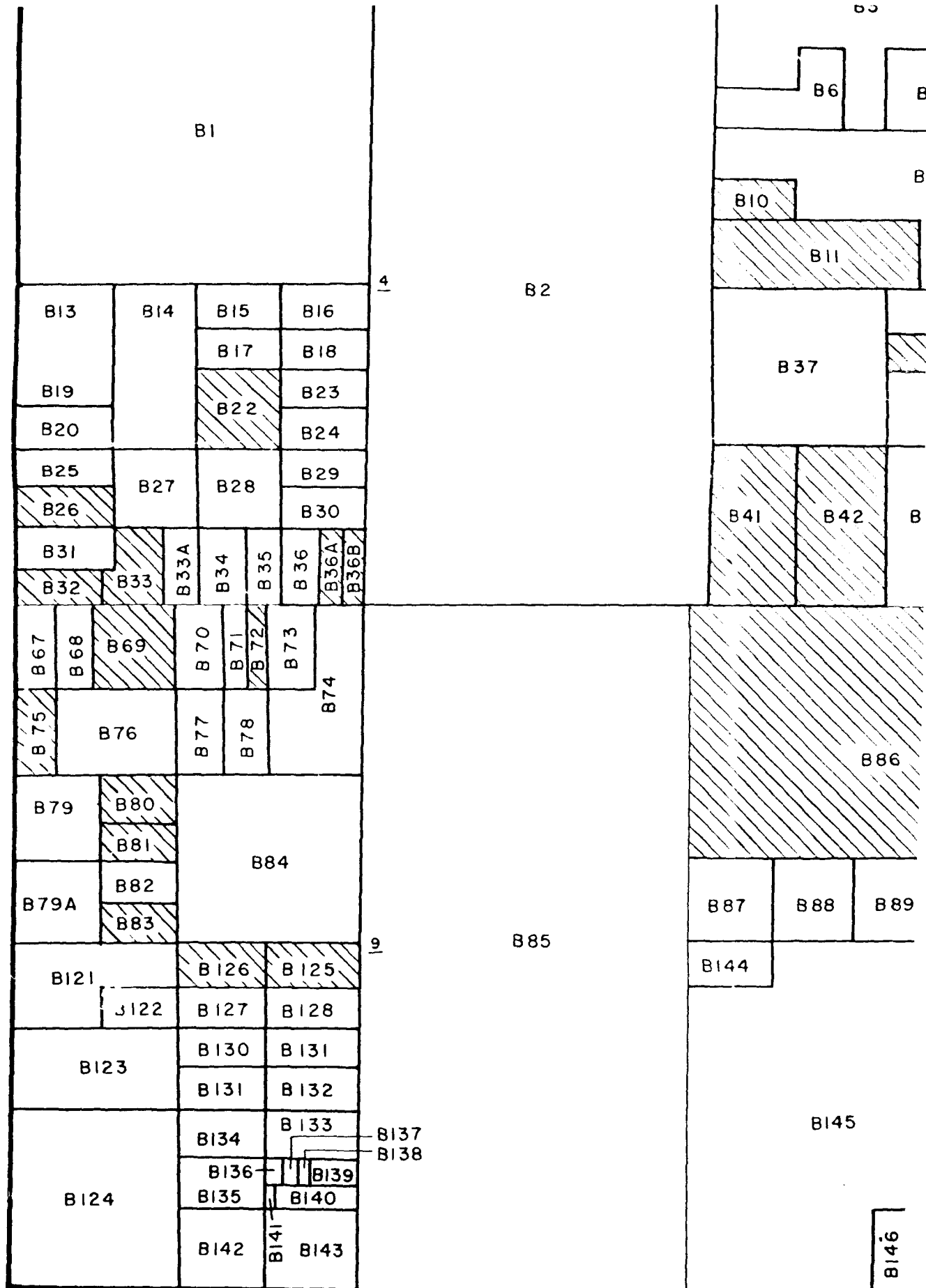
E4

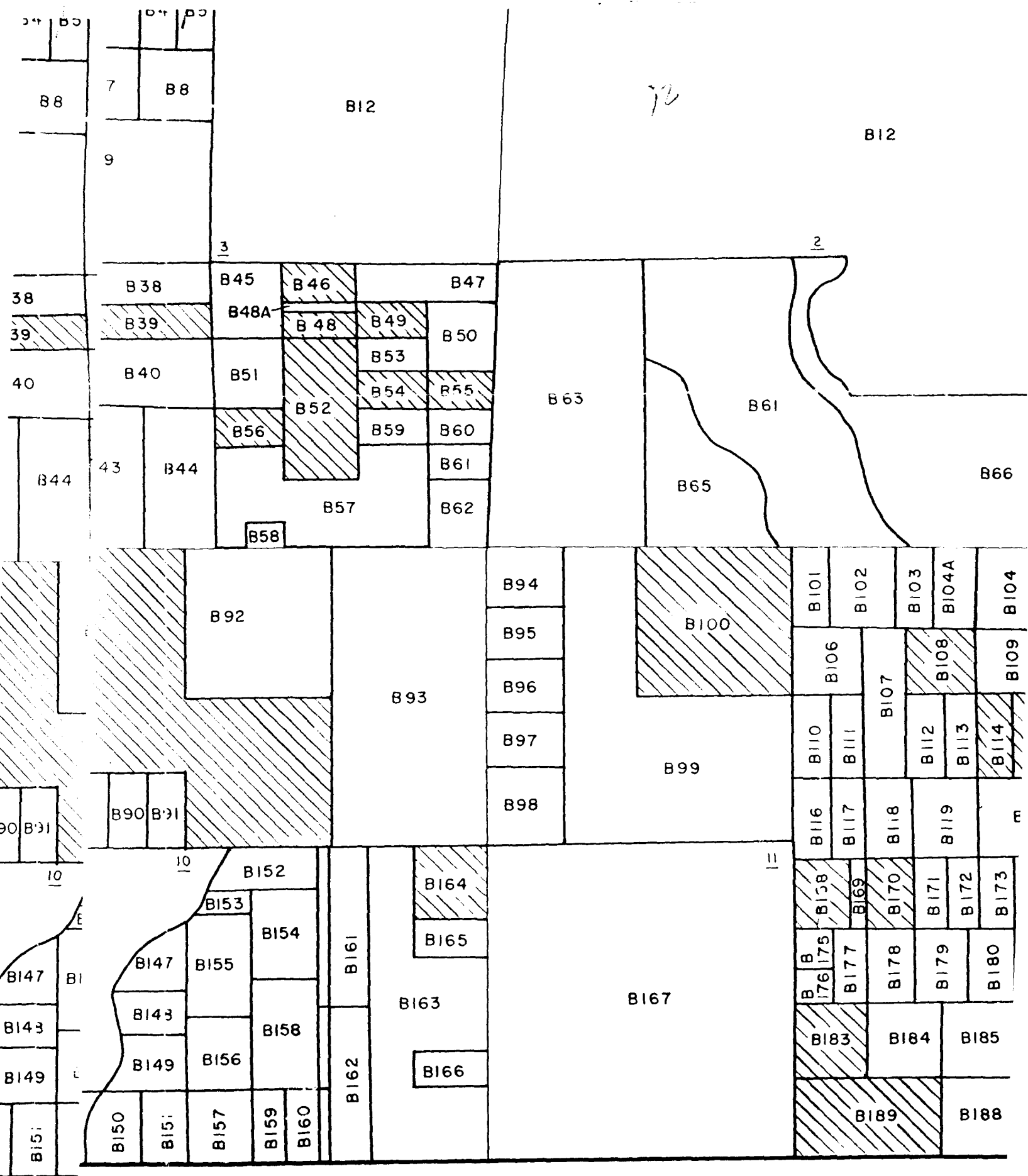
5

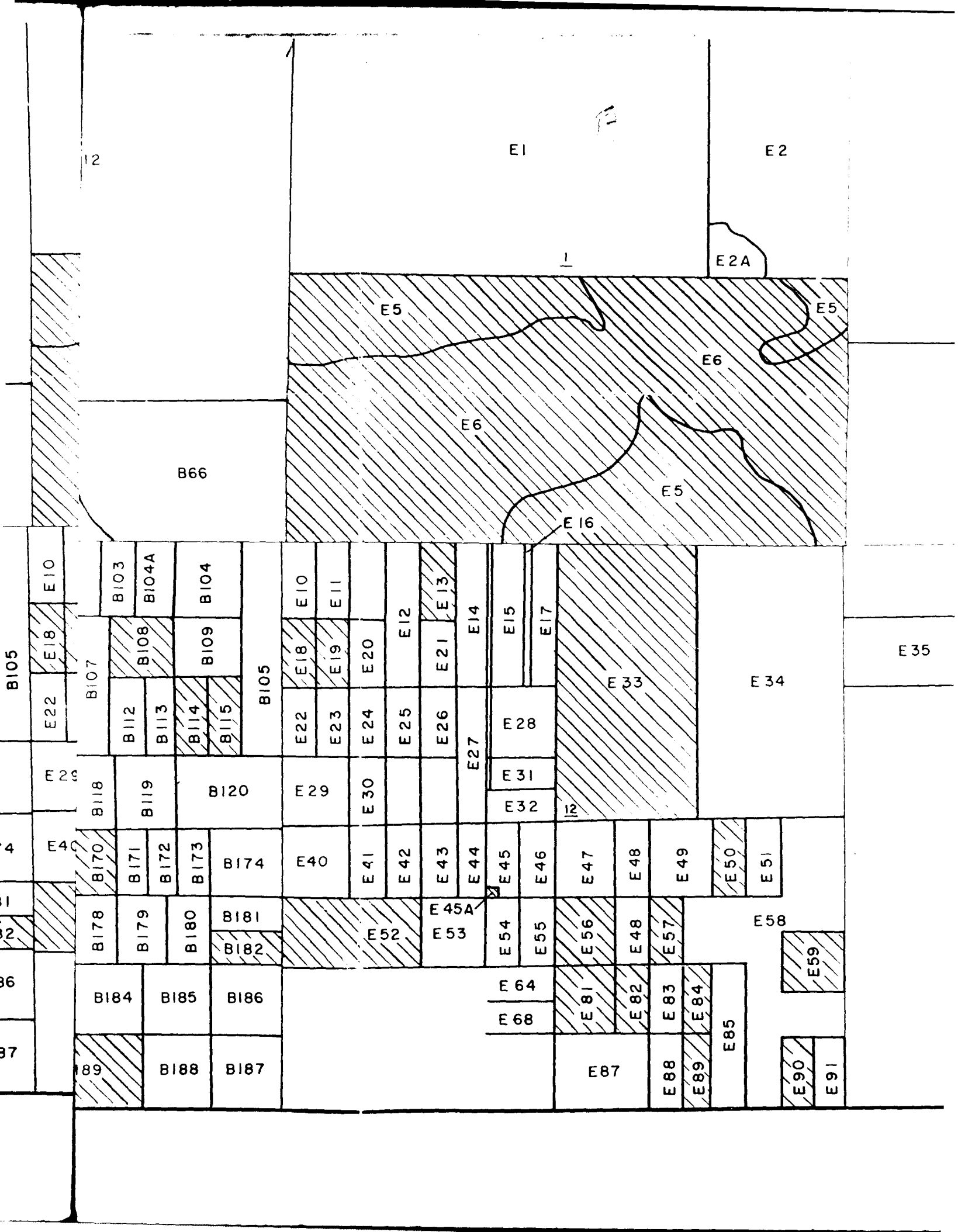
E8

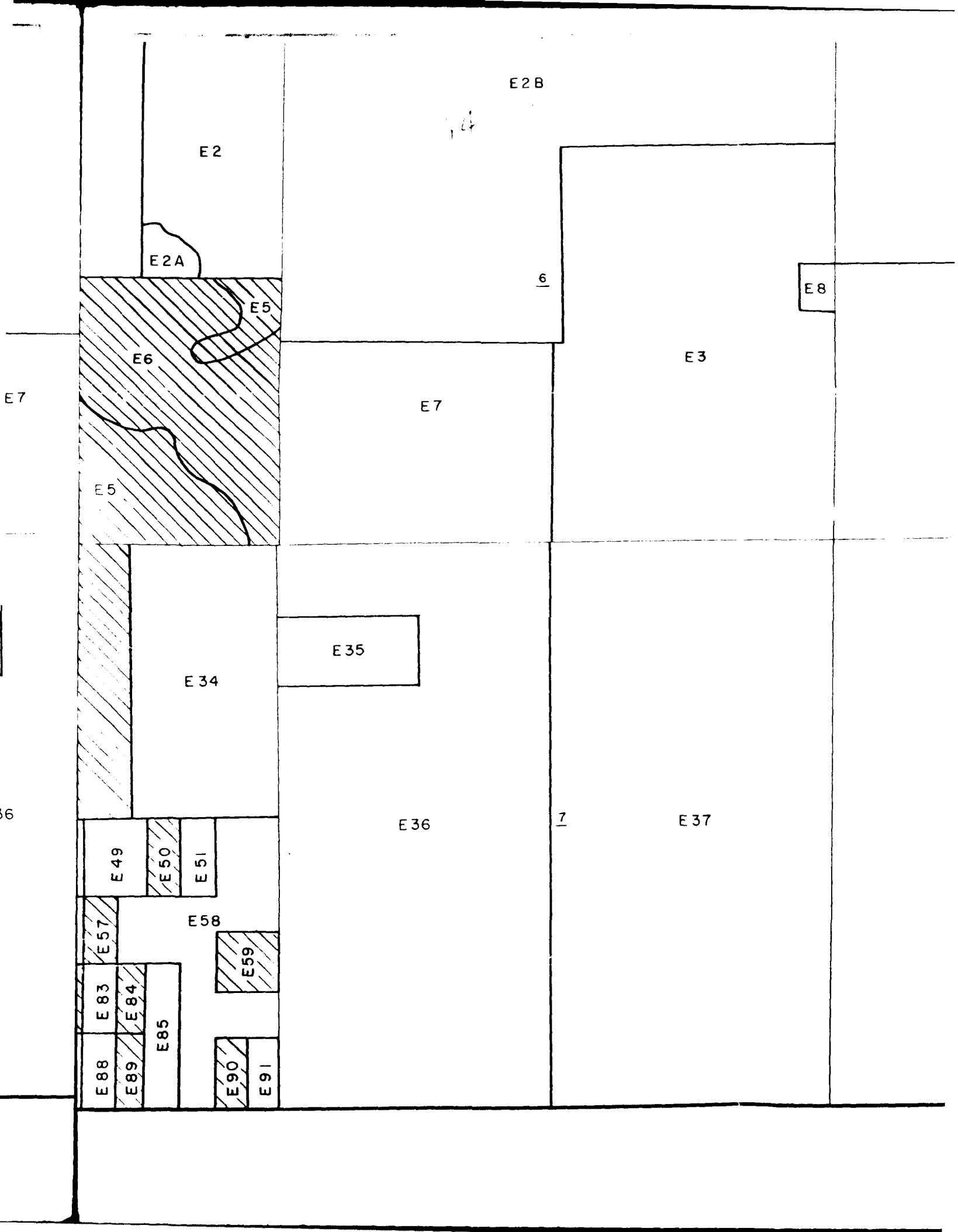
E93

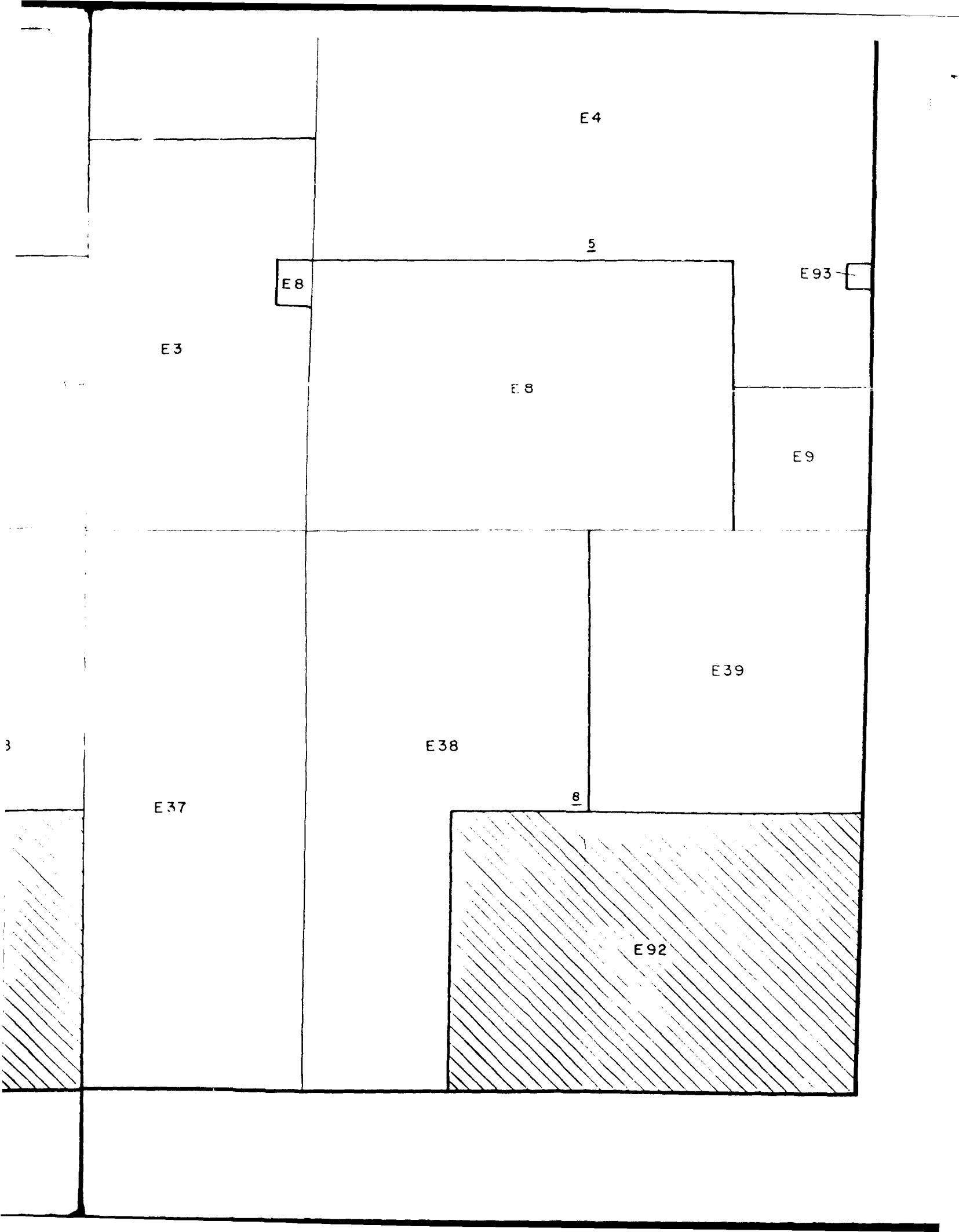
E8

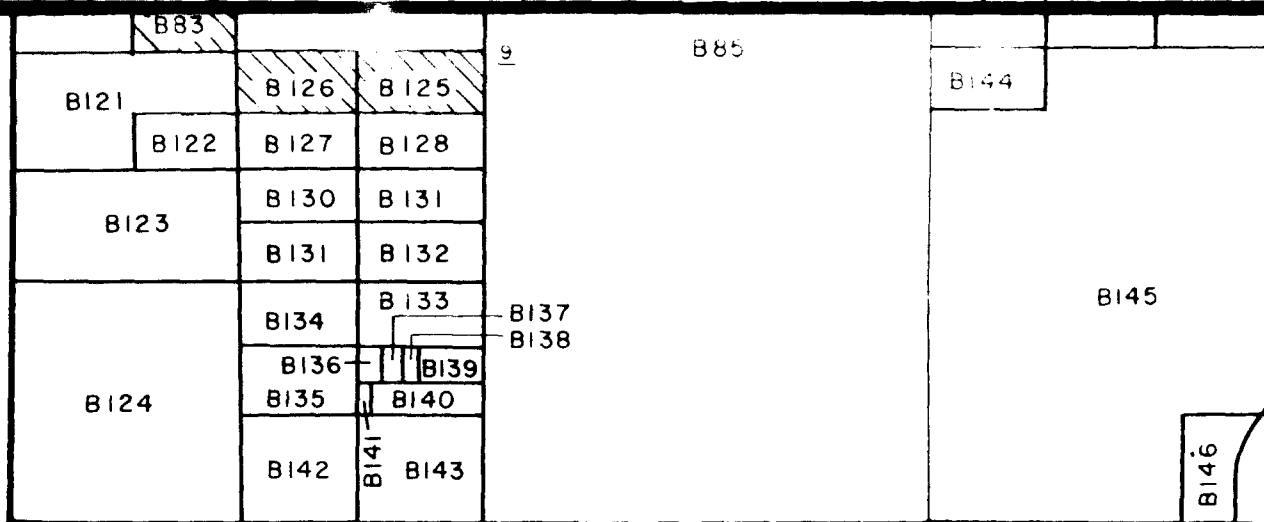








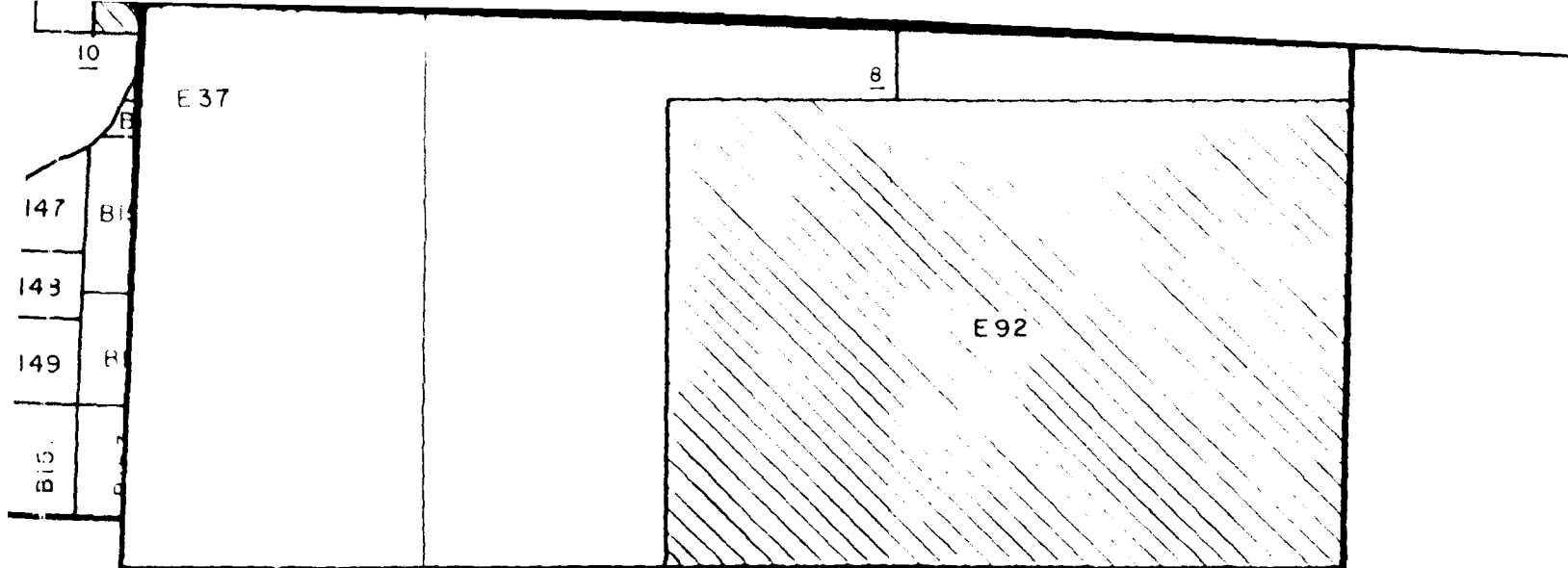




PARCELS ON WHICH WELL(S) ARE NOTED
IN APPRAISAL REPORTS, BUT NOT LOCATED
ON DRAWING 7:64-2105

2

SECTION NUMBER



ATTACHMENT 2

REAL ESTATE PLAT MAP

1942

LOCATION AND SIZE OF PARCELS INTERPRETED
FROM APPRAISAL REPORTS

2

2204636.

201996.








T2A66SEC16





4


T2A66SEC21


MAP LEGEND

| | |
|-------------------------------------------------------------------------------------|----------------|
|  | PRIMARY ROAD |
|  | SECONDARY ROAD |
|  | TERTIARY ROAD |
|  | BOUNDARY ROAD |
|  | OFFBASE ROAD |
|  | RAILROAD |
|  | HOMESTEAD |

 POSSIBLE WELL SITES
FROM 1937 AERIAL
PHOTOGRAPHS

 WELL NO 2 IN SECTION -
FROM 1943 ARMY MAP
DRILLED LESS THAN 100
FEET OR NO INFORMATION
ON CASING DIAMETER

 ASSUMED HAND DUG WELL;
CASING DIAMETER 24
INCHES OR GREATER - FROM
ARMY 1946 DATA

 WELL GREATER THAN 100
FEET IN DEPTH - FROM
ARMY 1946 DATA

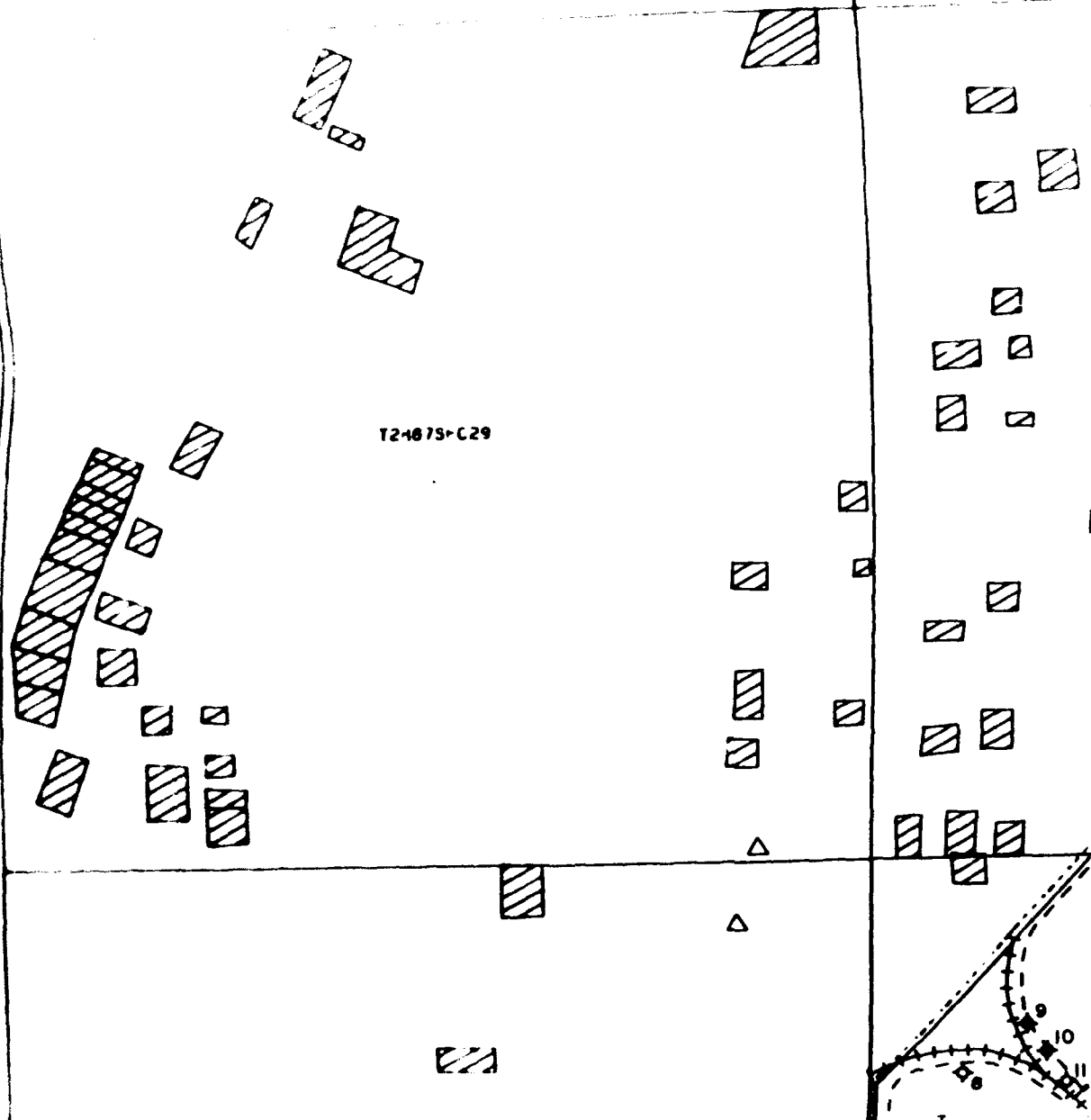
"TESTED" WELL - FROM

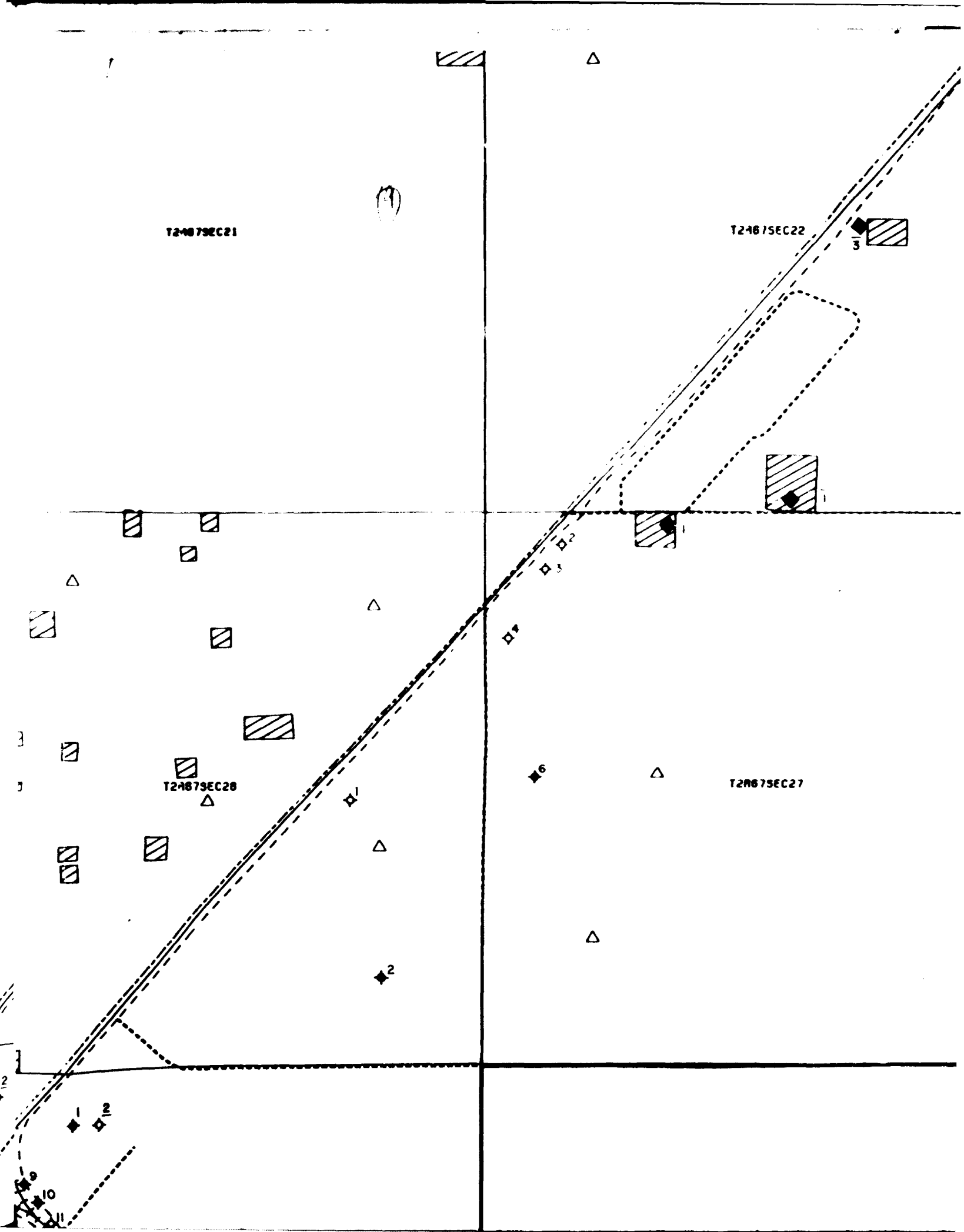
22046 76.

201996.

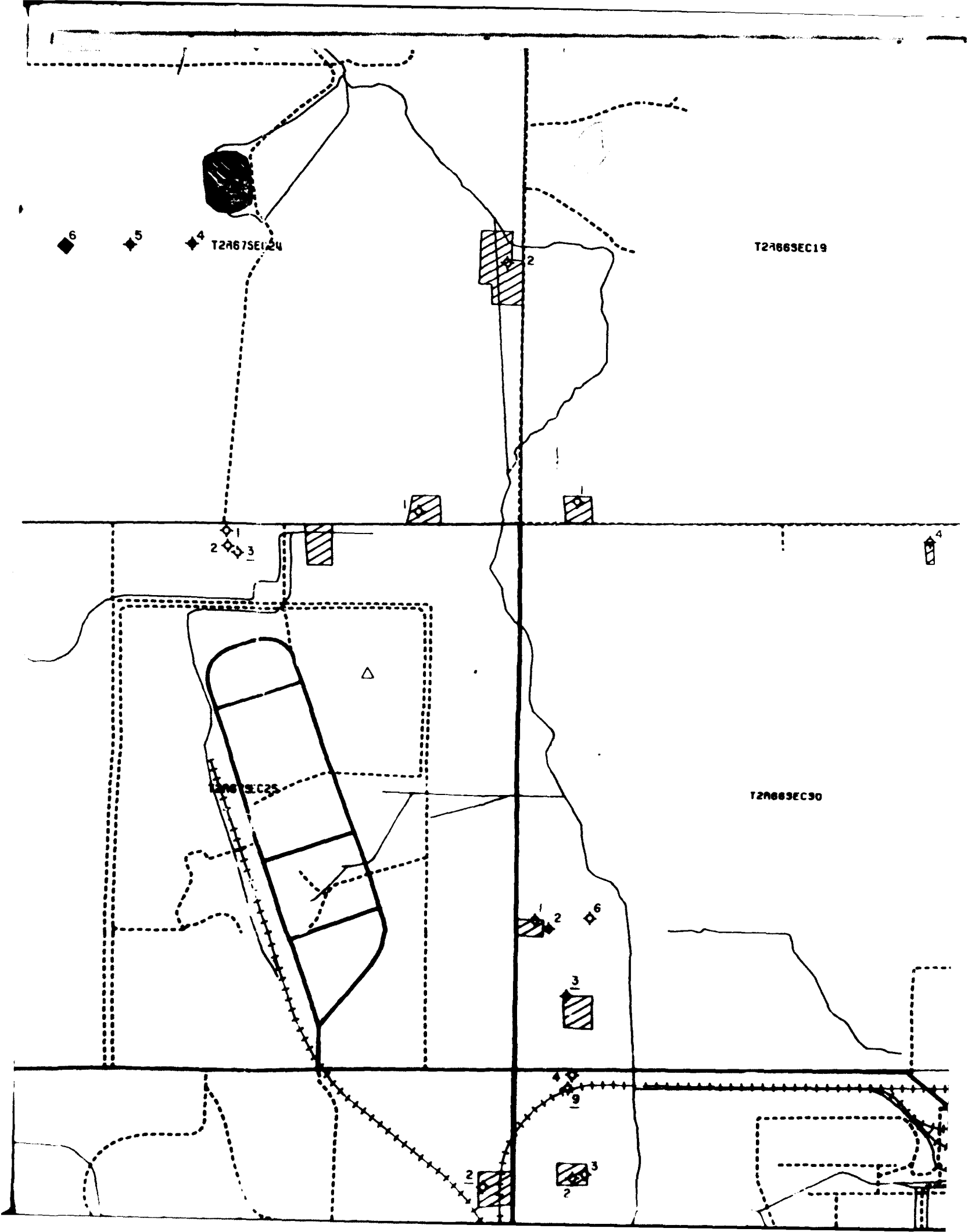
T24875EC20

T24875-C29









92

T2R66SEC20



T2R66SEC29



13

T2R66SEC21

NOTE

T2H66SEC20

2

Δ





ASSUMED HAND DUG WELL;
CASING DIAMETER 24
INCHES OR GREATER - FROM
ARMY 1946 DATA



WELL GREATER THAN 100
FEET IN DEPTH - FROM
ARMY 1946 DATA

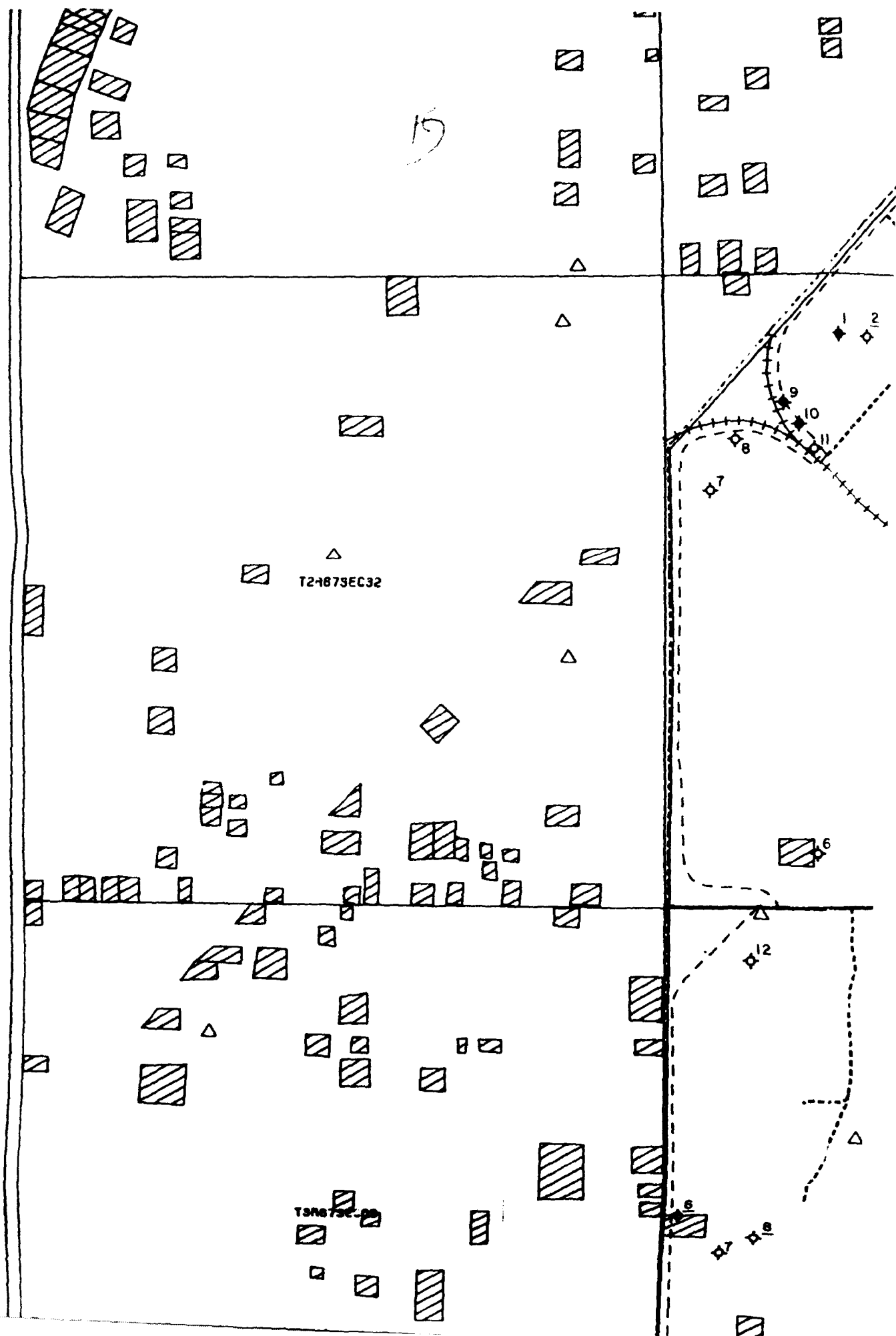


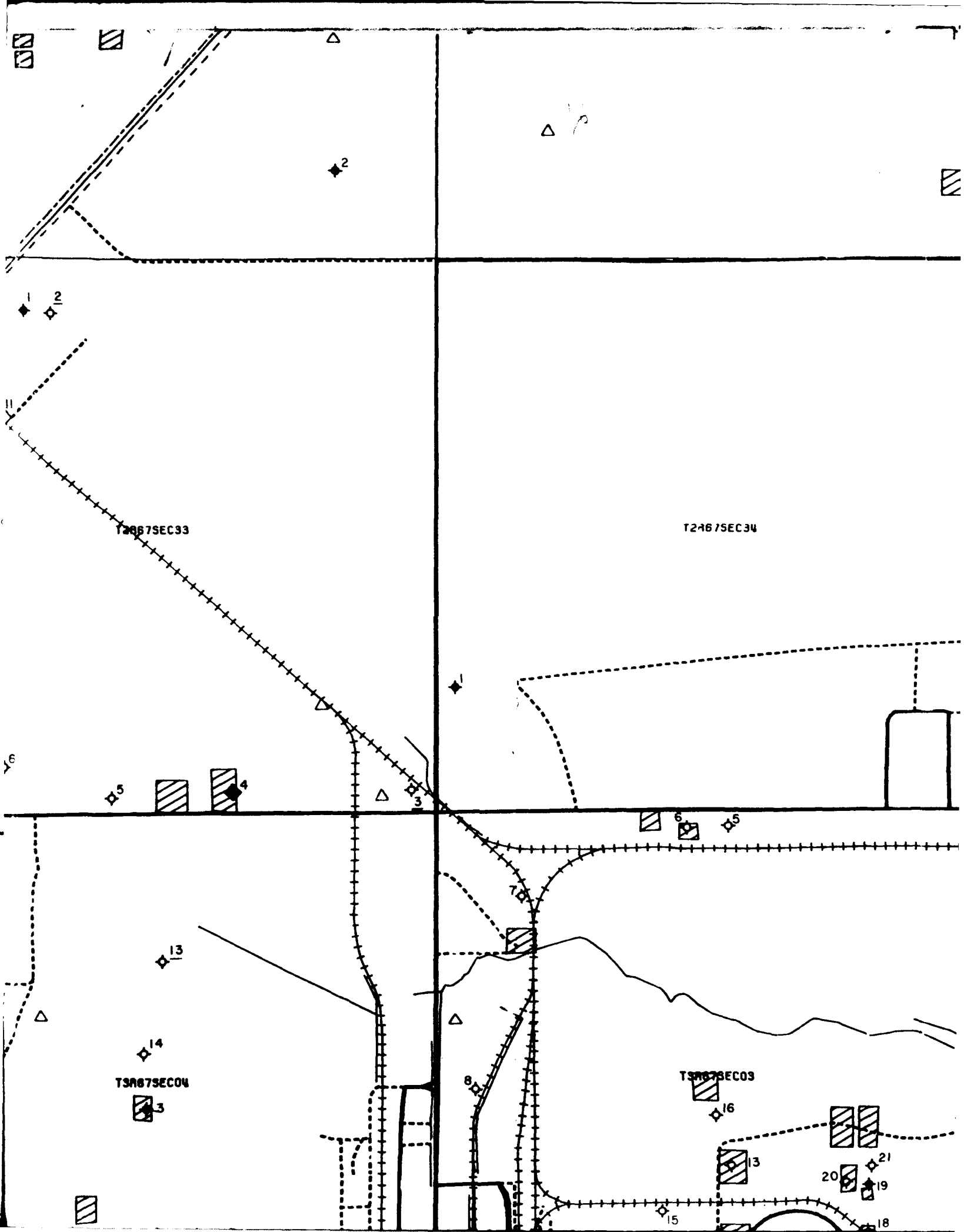
"FILLED" WELL - FROM
ARMY 1946 DATA

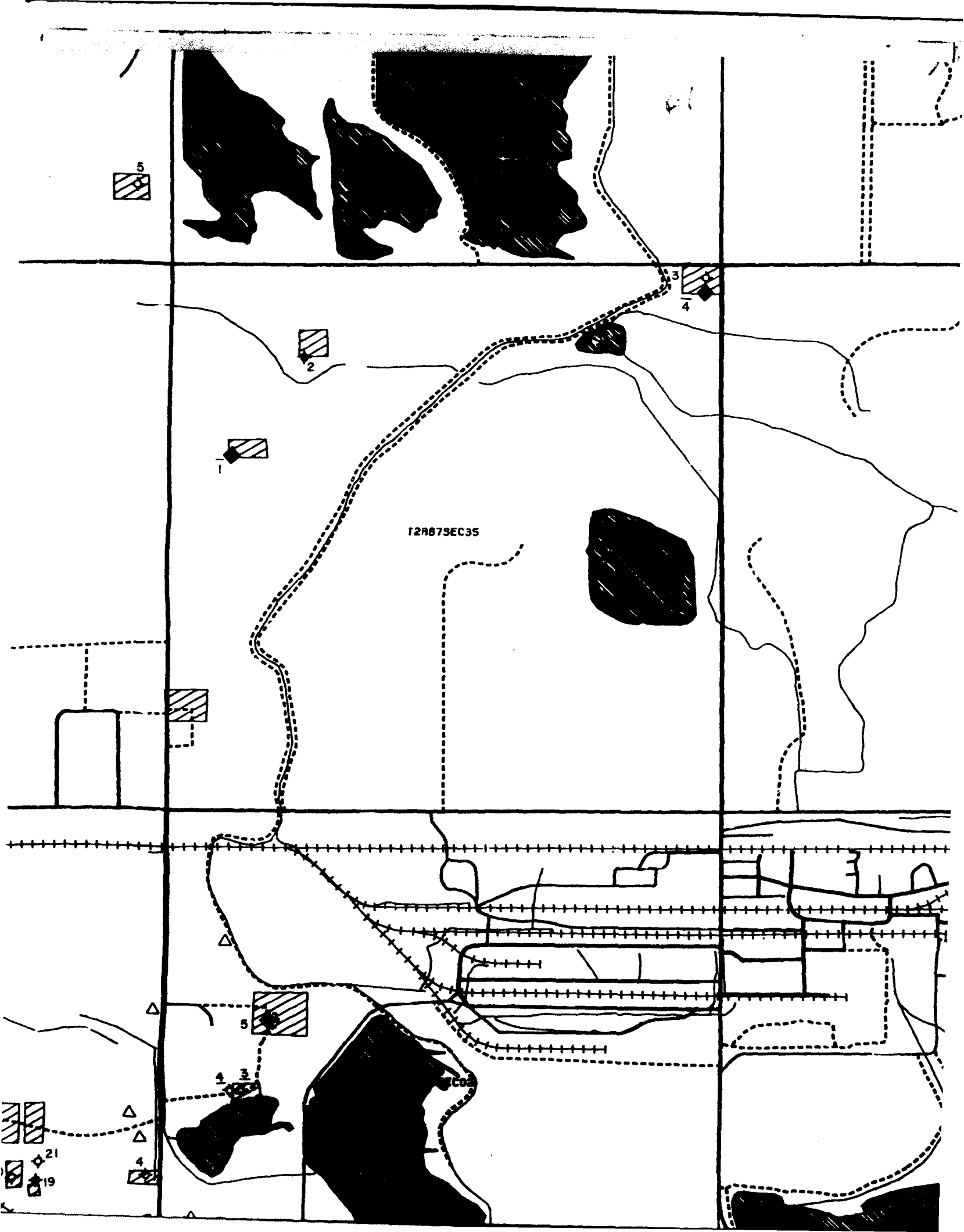


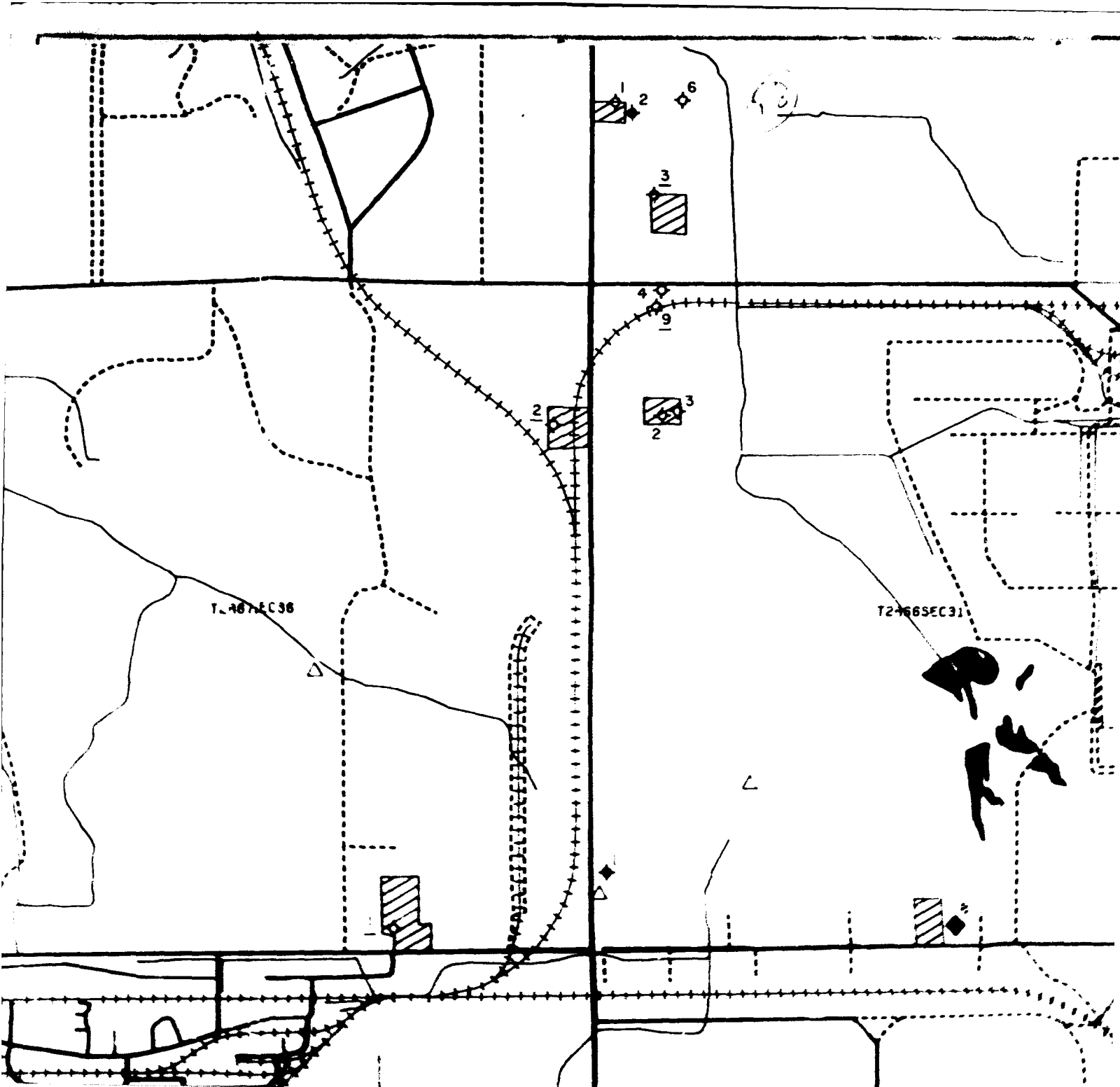
PLUGGED WELL - FROM
ARMY COE 1962 DATA

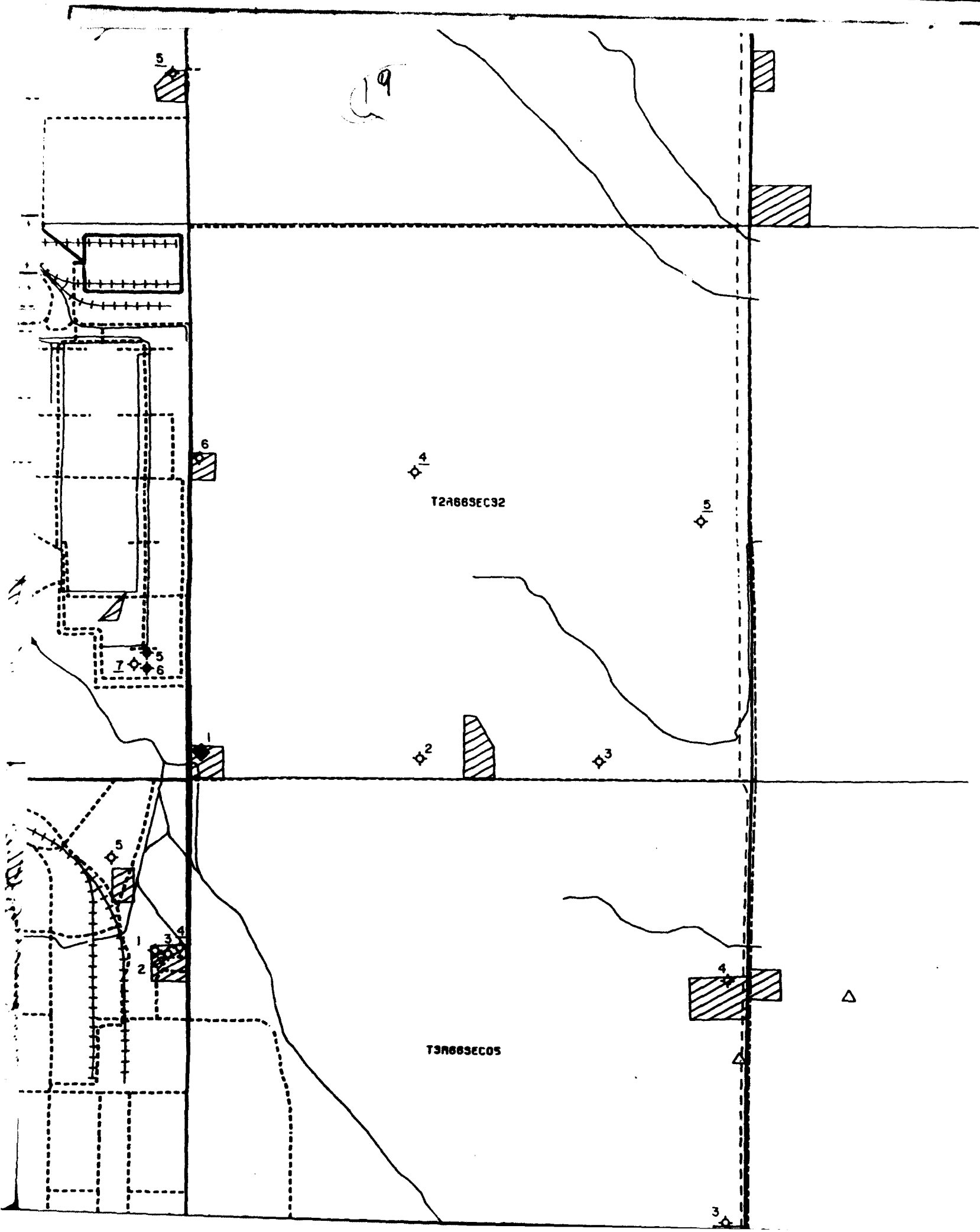
NOTE: ALL FEATURES EXCEPT
HOMESTEADS ARE CONTEMPORARY













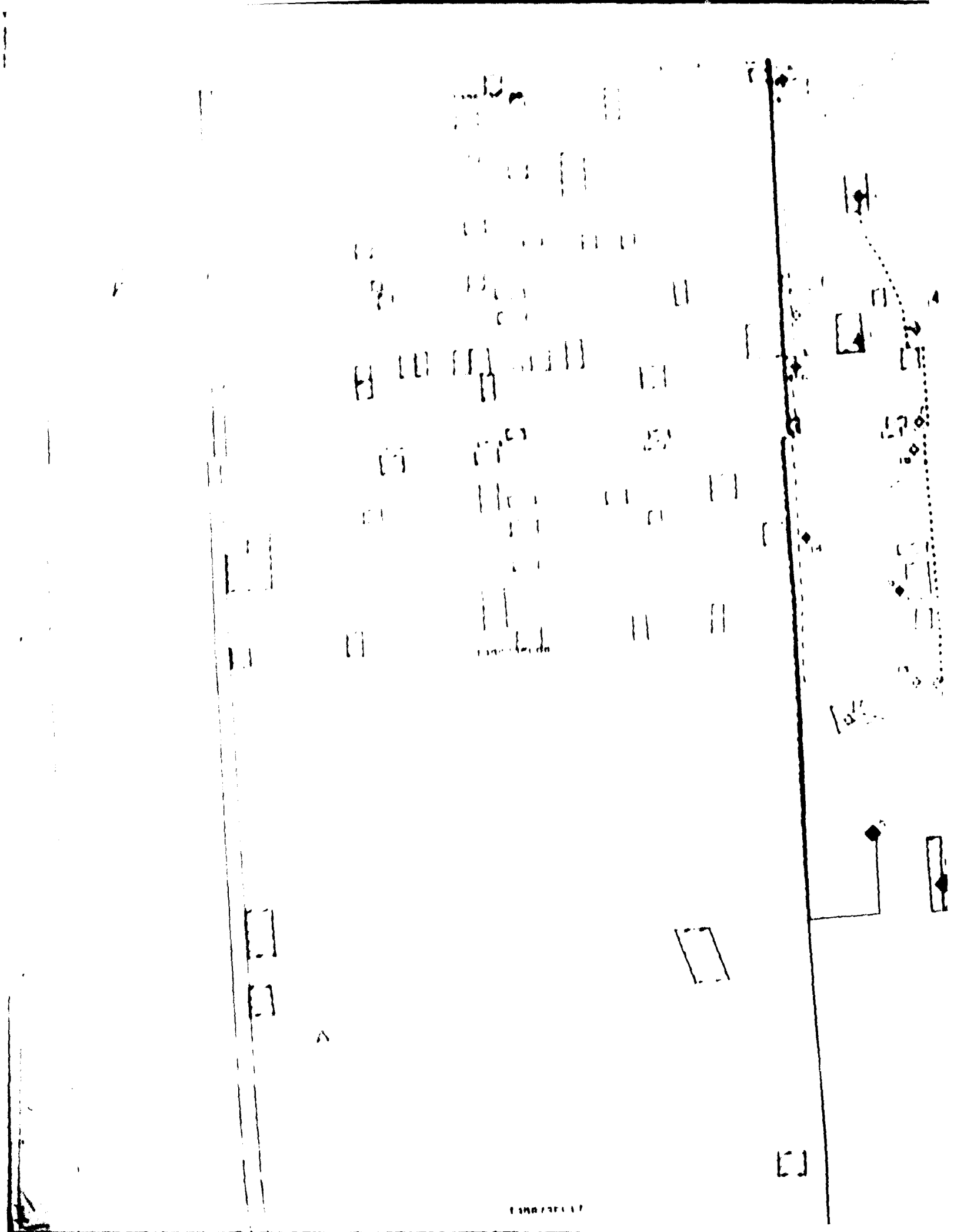
R6

T2R663EC33



T3

T3R663EC04



T3R87SEC08

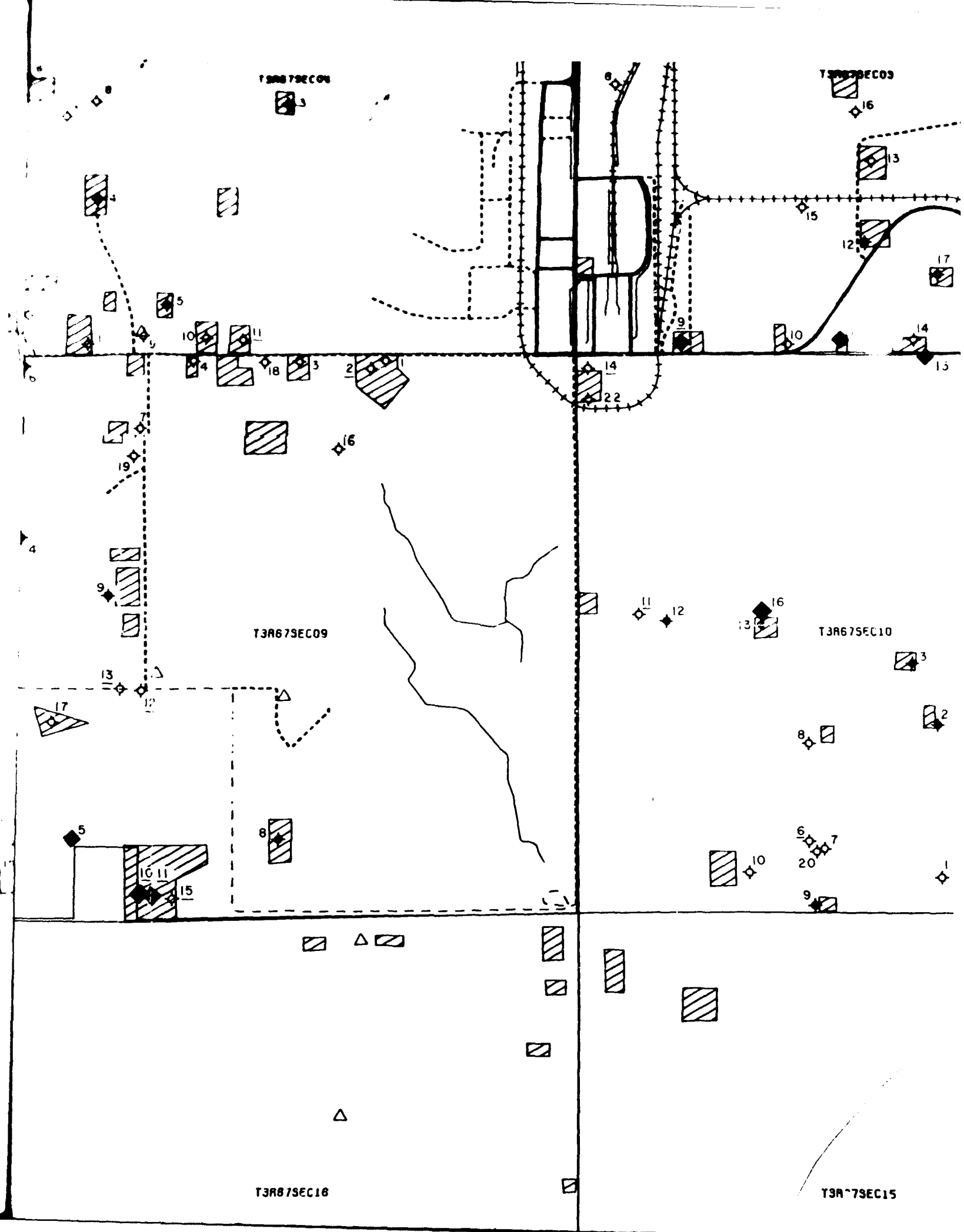
T3R87SEC09

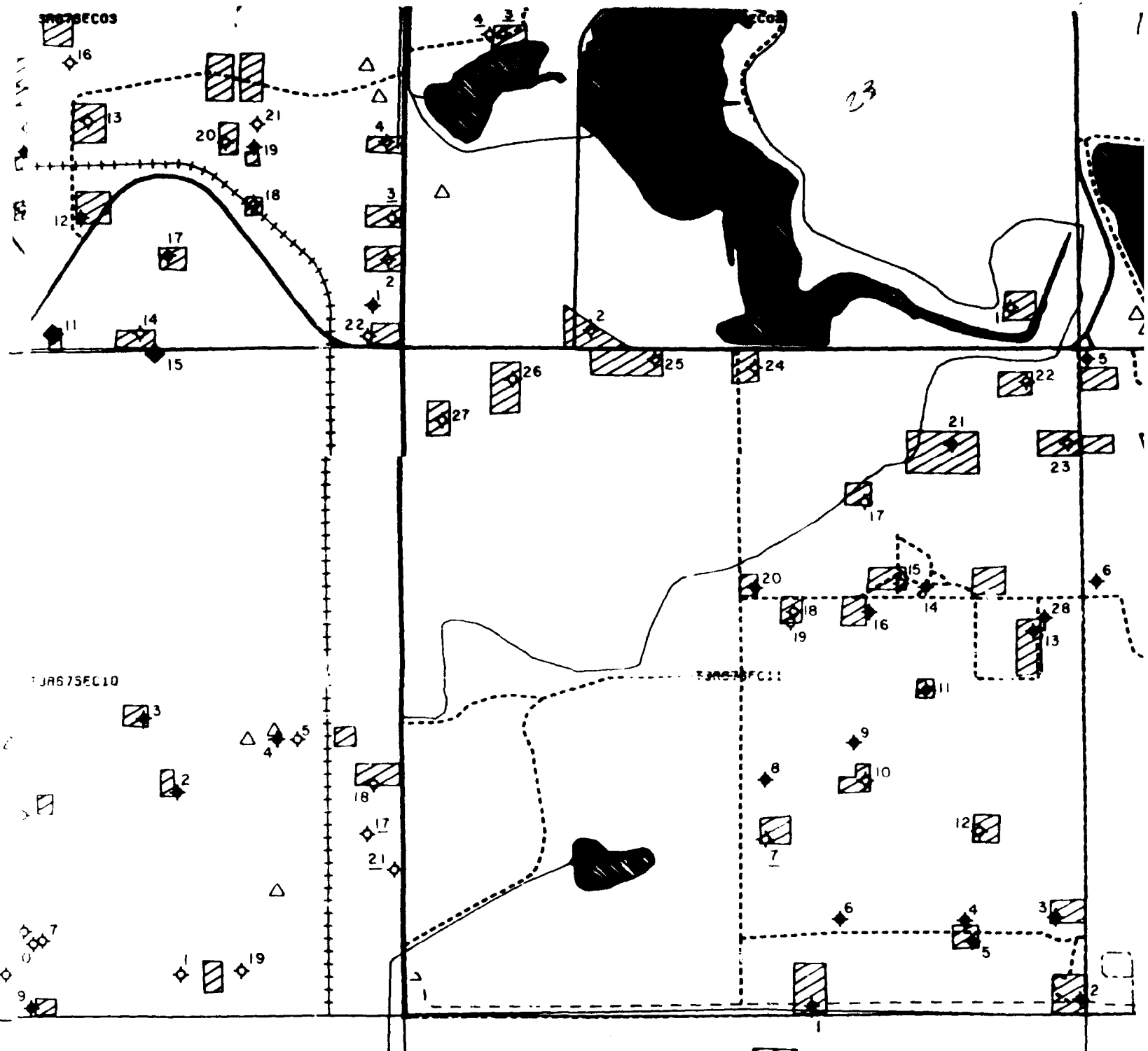
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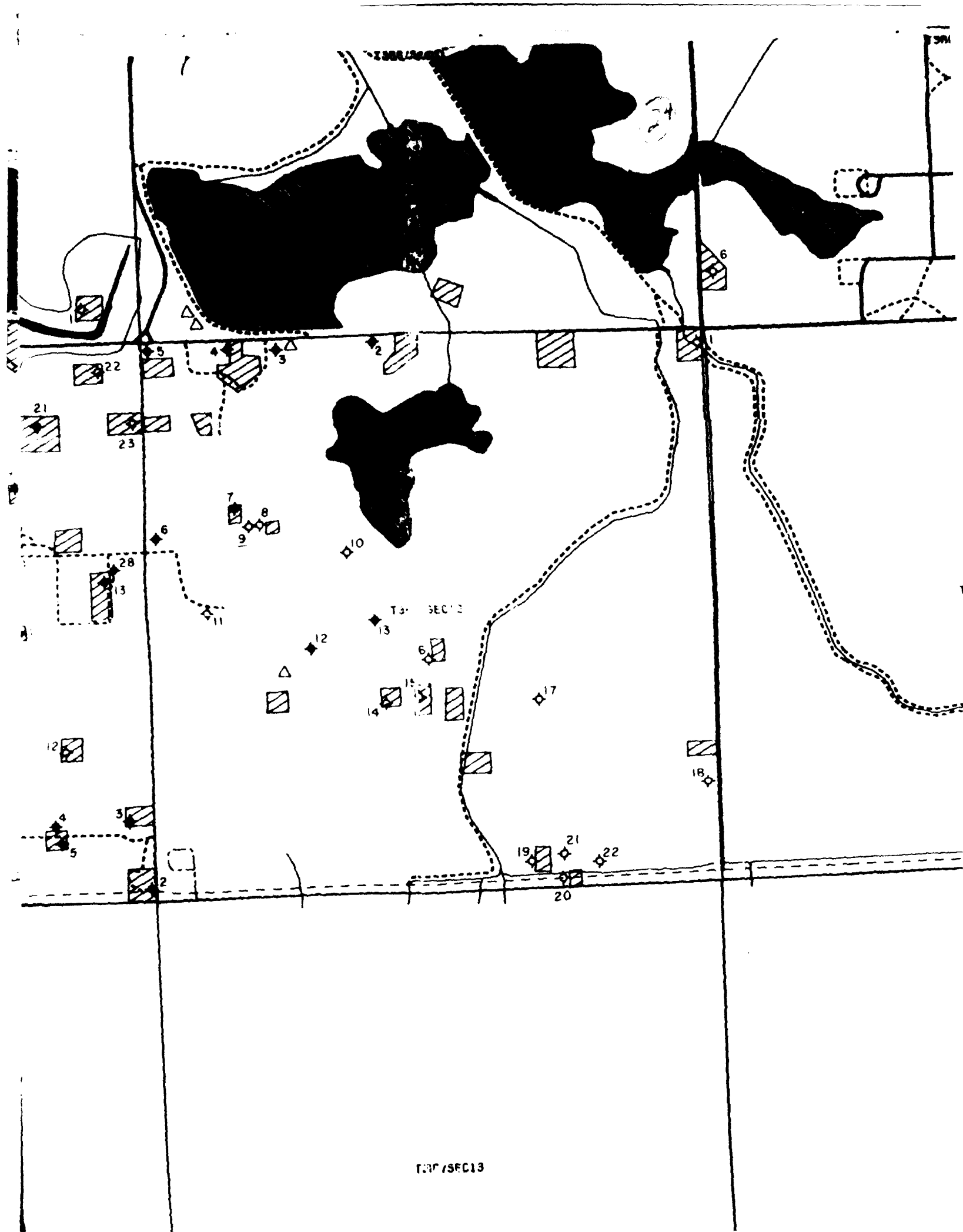
T3R67SEC10

T3R87SEC18

T3R87SEC15







T3A66SEC06

T3A66SF_07

T3A66SEC08

T3A66SEC10

T3A66SEC17

3



2



T3A883EC09



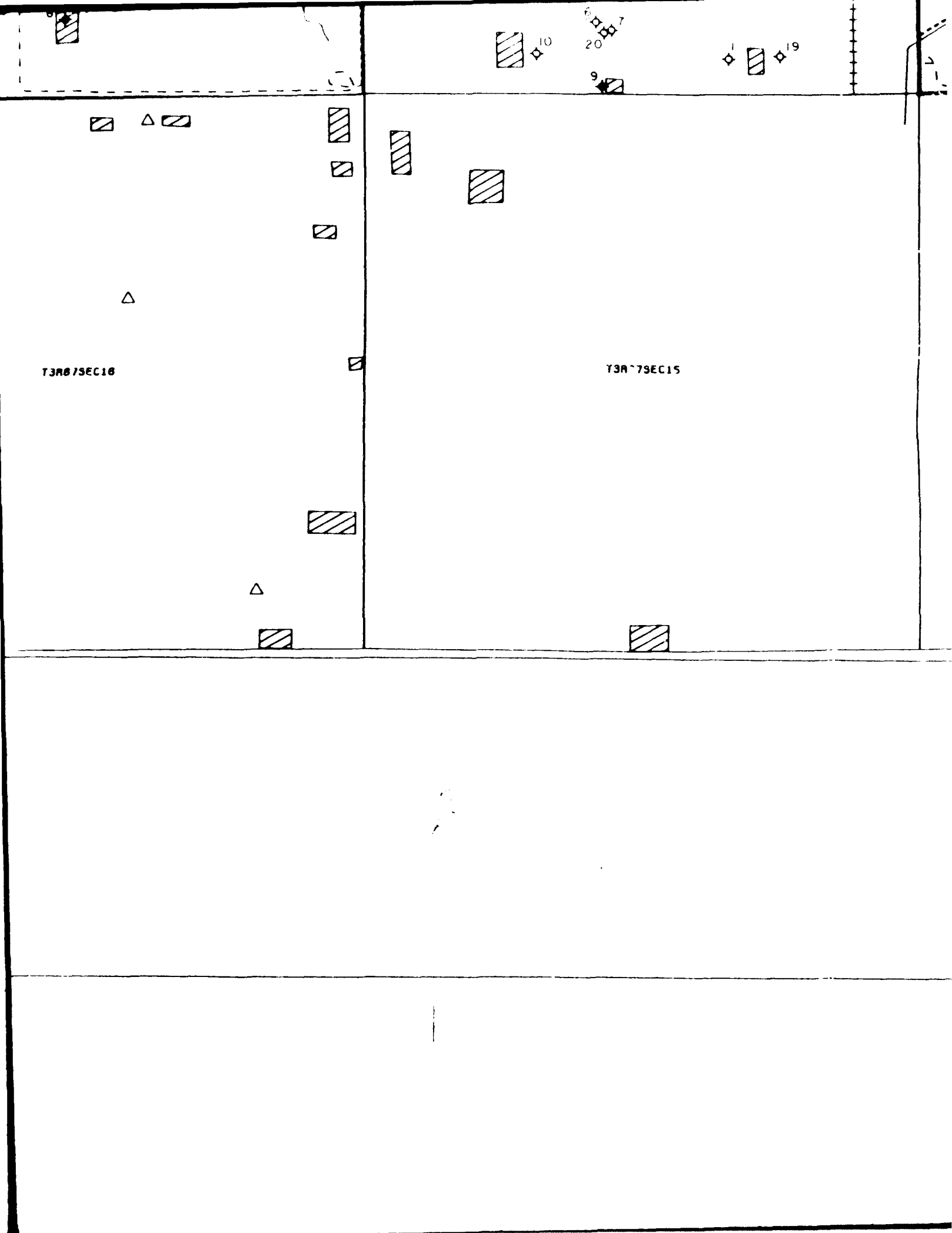
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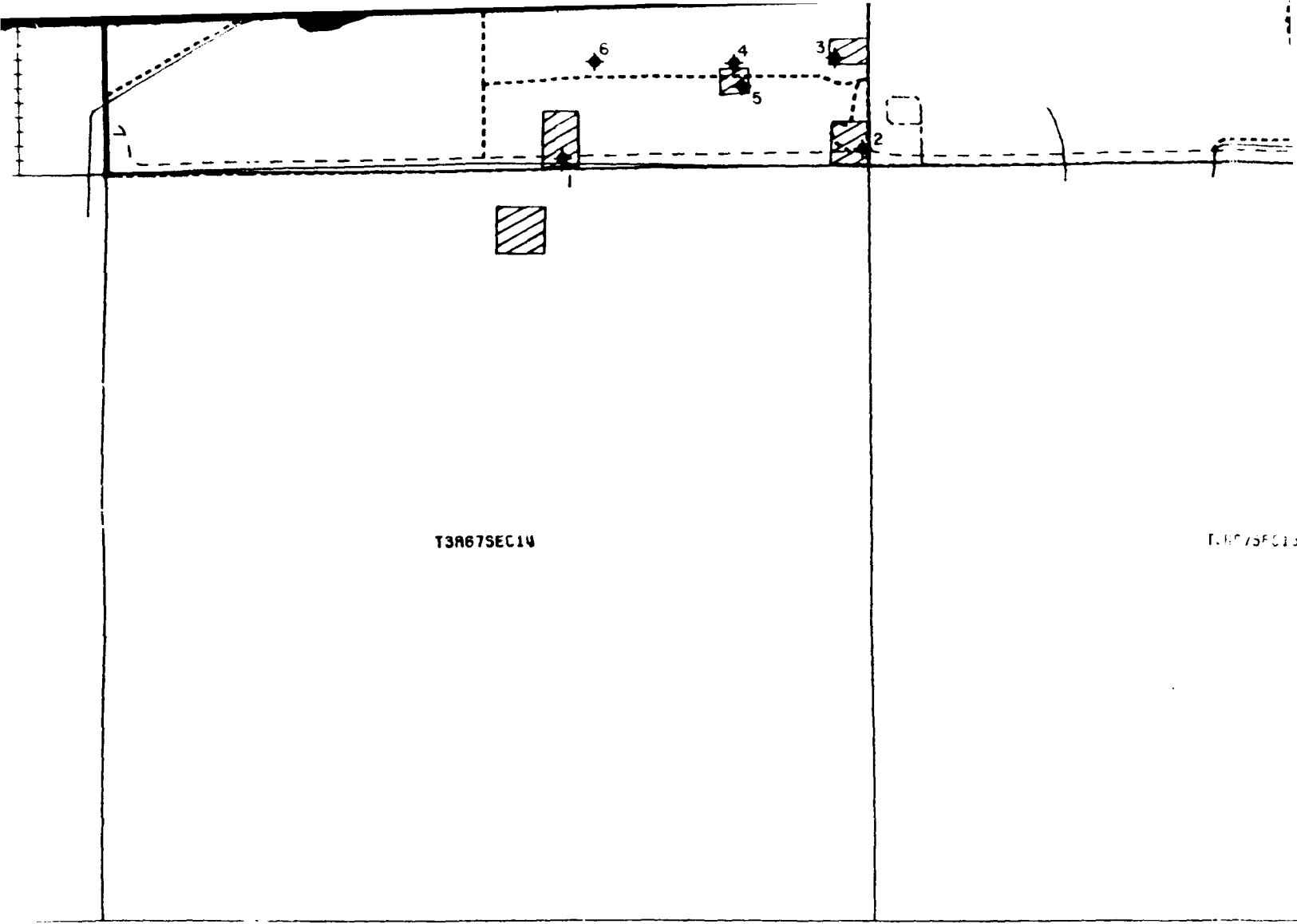
109858.

2.52357.

T3R675EC17







SCALE 1: 12000.



29

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20

T3A685-C13

T3A685-C18

4000

670



T3A66SEC17

T3A66

8



184658.

22 JUL 96.



ROCKY MOUNTAIN ARSENAL

PRE-RMA WELL LOCATIONS

ATTACHMENT 3